Atlantic Salmon Counts at Beechwood Dam Fish-Collection Facilities, 1977-82

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ABSTRACT

Ingram, J.H. 1987. Atlantic salmon counts at Beechwood Dam fish-collection facilities, 1977-82. Can. Data Rep. Fish. Aquat. Sci. No. 664. viii + 34 p.

This report lists in detail the counts of anadromous Atlantic salmon passed through the fish facilities at Beechwood Dam, Saint John River, New Brunswick, from 1977 to 1982, inclusive. Also included are summary tables of other species of fish using these facilities.

Key words: Saint John River, Beechwood Dam, fish facilities, Atlantic salmon, other anadromous species and freshwater species.

RÉSUMÉ

Ingram, J.H. 1987. Atlantic salmon counts at Beechwood Dam fish-collection facilities, 1977-82. Can. Data Rep. Fish. Aquat. Sci. No. 664. viii + 34 p.

Dans ce rapport, on donne une liste détaillée des dénombrements de saumons anadromes de l'Atlantique ayant tranversé les installations construites pour leur passage au barrage de Beechwood, sur la rivière St-Jean au Nouveau-Brunswick, de 1977 à 1982 compris. On a aussi inclus dans ce rapport des tableaux sommaires dans lesquels figurent les autres espèces de poissons utilisant ces installations.

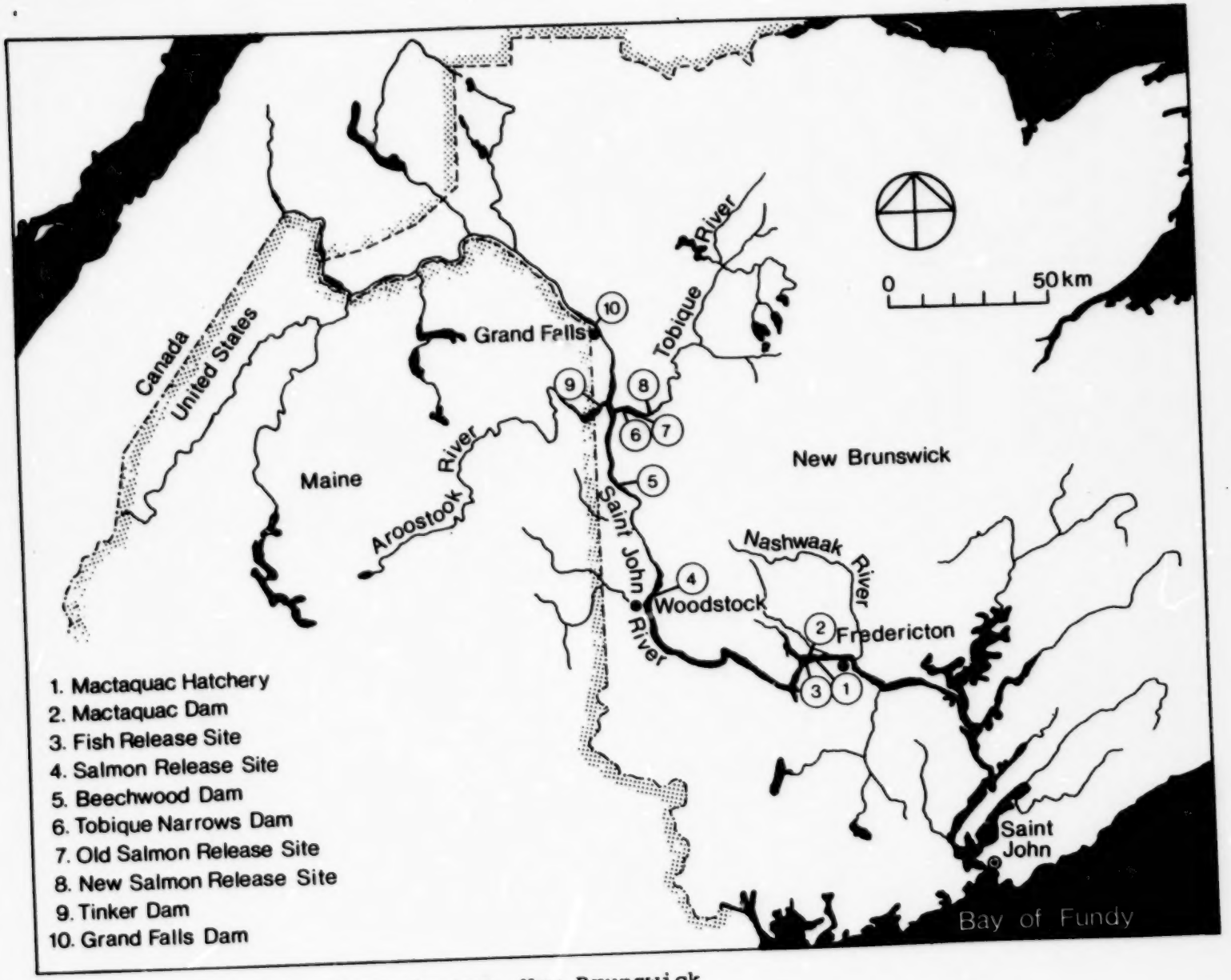

FIG. 1. Saint John River System, New Brunswick

INTRODUCTION

Beechwood Dam, constructed in 1957, is one of five major hydroelectric dams on the Saint John River system, New Brunswick. This dam spans the main stem of the river at the village of Beechwood, about 130 km (80 miles) upstream of the Mactaquac hydroelectric development, and blocks all upstream movement of fish. To facilitate fish passage, a collection gallery with six entrances was built on the face of the powerhouse wall over the turbine-water outflow. A transportation channel, including a rest pool, leads to a fish elevator or skip-hoist that transfers fish from below the dam to the reservoir above.

This report provides daily and summary tables of the number of Atlantic salmon (Salmo salar) and other species ascending the skip-hoist from 1977 to 1982. Data for the years 1972-1976 and from 1957 (year of completion of construction) to 1971 are reported by Ingram (1981) and Smith (1979), respectively.

PRESENTATION OF DATA

Data presented in the tables and appendices of this report deal primarily with counts of Atlantic salmon which passed through the Beechwood fish facilities.

In this report, the term "salmon" refers to fish which have spent one or more winters at sea, i.e., it includes both grilse and large salmon. The term "1-SW" (one-sea-winter) is herein used to distinguish a grilse; and, the term "M-SW" (multi-sea-winter) herein used to distinguish a large salmon which has spent two or more winters at sea.

The skip-hoist or fish release site is located between the turbine intakes and the spill gates, and some of the fish released above the dam fall back to the tailrace. Counts of "fallbacks" are available for tagged fish (Table 10) but have not been used to adjust the counts of untagged fish in this report.

The number of salmon that are available to Beechwood fish facilities depends solely on what is released from Mactaquac. Hence, semi-monthly counts of Mactaquac releases at Woodstock (below Beechwood) are also provided in this report.

The removal of the adipose fins from all hatchery-reared smolts permitted identification in the skip-hoist of both wild and hatchery-origin returning adults.

Several species of fish other than Atlantic salmon were also counted through the fish facilities. Although some of the recorded totals are only approximate, the general timing and relative intensity of the runs are evident.

The approximate oxygen content as related to temperature of the river water at Beechwood Dam is tabulated because it has sometimes dropped to 5 ppm or less.

Throughout this report, particularly in some tables, space was somewhat limited. Consequently, the various abbreviations "H, Hat, Hatch and Hatch." have all been used to indicate fish of hatchery origin.

ACKNOWLEDGEMENTS

The author is indebted to Mr. Gary Fitzherbert who collected and recorded the data and to Dr. T. L. Marshall who provided constructive review of this report.

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Smith, K.E.H. 1979. Capture and distribution of all fish species at Saint John River power dams, New Brunswick, from construction years to 1971. Freshwater and Anadromous Division, Resource Branch, Department of Fisheries and Oceans, Halifax, Nova Scotia. Can. Data Rep. Fish. Aquat. Sci. No. 171. 63 p.

Ingram, J.H. 1981. Fish-count data at Beechwood Dam fish-collection facilities, 1972-76. Freshwater and Anadromous Division, Resource Branch, Department of Fisheries and Oceans, Halifax, Nova Scotia. Can. Data Rep. Fish. Aquat. Sci. No. 254. 41 p.

TABLE 1. Operating periods of Beechwood fish facilities and related timings of salmon runs.

Event	Dates					
	1977	1978	1979	1980	1981	1982
Beechwood fish facilities opened	20 Jun	12 Jun	14 Jun	10 Jun	09 Jun	14 Jun
Beechwood fish facilities closed	04 Nov	01 Nov	05 Nov	04 Nov	11 Nov[1]	03 Nov
First 1-SW fish released at Woodstock	03 Jun	29 Jun	26 Jun	16 Jun	25 Jun	21 Jun
First M-SW fish released at Woodstock	03 Jun	15 Jun	20 Jun	15 May	22 May	21 Jun
First 1-SW fish ascended Beechwood	20 Jun	03 Jul	04 Jul	20 Jun	02 Jul	02 Jul
Last 1-SW fish ascended Beechwood	03 Nov	30 Oct	01 Nov	04 Nov	22 Oct	02 Nov
First M-SW fish ascended Beechwood	24 Jun	19 Jun	29 Jun	10 Jun	12 Jun	28 Jun
Last M-SW fish ascended Beechwood	31 Oct	31 Oct	01 Nov	03 Nov	19 Oct	28 Oct

1. From October 23 until the fishway was closed, extreme high water and broken entrance stop logs prevented the Beechwood fish facilities from operating properly. No fish ascended the fishway during this period.

TABLE 2. Yearly totals of 1-SW and M-SW salmon of wild and hatchery origin released at Woodstock, and the numbers and percentages passed through Beechwood fish facilities, 1977-82.

Stock	Year	Number of fish				% through Beechwood	
		Woodstock		Beechwood			
		1-SW	M-SW	1-SW	M-SW	1-SW	M-SW
Wild	1977	1,509	3,024	1,043	1,782	69.1	58.9
"	1978	724	1,231	481	646	66.4	52.5
"	1979	3,296	763	2,559	557	77.6	73.0
"	1980	3,873	3,224	2,116	1,842	54.6	57.1
"	1981	2,274	779	1,277	457	56.2	58.7
"	1982	2,053	576	1,638	467	79.8	81.1
	Totals	13,729	9,597	9,114	5,751	66.4	59.9
Hatchery	1977	2,883	821	830	312	28.8	38.0
"	1978	1,245	791	433	291	34.8	36.8
"	1979	1,908	362	1,113	251	58.3	69.3
"	1980	4,818	660	1,537	311	31.9	47.1
"	1981	2,098	305	374	147	17.8	48.2
"	1982	1,120	88	292	22	26.1	25.0
	Total	14,072	3,027	4,579	1,334	32.5	44.1
Grand Total 1977-82		27,801	12,624	13,693	7,085	49.3	56.1

Note: These data do not take into account fallback of fish at Beechwood, Tobique or Woodstock, nor angling and other mortalities including poaching.

TABLE 3. Semi-monthly counts of 1-SW and M-SW salmon ascending the Beechwood fish facilities, 1977-82. (Daily counts in Appendix A)

Year	Sea-age	June		July		August		September		October		Nov	Total
		1-15	16-30	1-15	16-31	1-15	16-31	1-15	16-30	1-15	16-31	1-5	
1977	1-SW	0	2	171	632	249	288	121	322	65	19	4	1,873
	M-SW	0	4	208	708	257	340	190	337	37	13	0	2094
	Total	0	6	379	1340	506	628	311	659	102	32	4	3,967
1978	1-SW	0	0	42	378	181	20	68	133	67	25	0	914
	M-SW	0	8	85	405	99	7	76	156	71	30	0	937
	Total	0	8	127	783	280	27	144	289	138	55	0	1,851
1979	1-SW	0	0	736	477	47	434	136	964	782	94	2	3,672
	M-SW	0	1	386	64	2	49	13	142	132	18	1	808
	Total	0	1	1,122	541	49	483	149	1,106	914	112	3	4,480
1980	1-SW	0	16	104	603	805	904	237	422	278	281	3	3,652
	M-SW	6	156	524	338	384	277	79	170	93	122	4	2,153
	Total	6	172	628	941	1,189	1,181	316	592	371	403	7	5,806
1981	1-SW	0	0	142	585	194	149	193	1,120	203	65	0	1,651
	M-SW	7	12	142	216	47	27	65	26	45	17	0	604
	Total	7	12	284	801	241	176	258	146	248	82	0	2,255
1982	1-SW	0	0	271	363	353	177	225	316	194	29	2	1,930
	M-SW	0	5	242	76	35	25	26	60	19	2	0	490
	Total	0	5	513	439	388	202	251	376	213	31	2	2,420

TABLE 4. Semi-monthly counts of 1-SW and M-SW salmon released at Woodstock and those that passed through the Beechwood fish facilities in 1977.

Period	Released at Woodstock						Ascended Beechwood					
	1-SW		M-SW		Totals		1-SW		M-SW		Totals	
	Wild	Hatch	Wild	Hatch	1-SW	M-SW	Wild	Hatch	Wild	Hatch	1-SW	M-SW
1-15 Jun	1	2	3	12	3	15	0	0	0	0	0	0
15-30 Jun	0	0	5	15	0	20	2	0	3	1	2	4
1-15 Jul	505	651	1,108	305	1,156	1,413	114	57	188	20	171	208
16-31 Jul	554	999	988	274	1,553	1,262	396	236	606	102	632	708
1-15 Aug	101	238	265	50	339	315	123	126	221	36	249	257
16-31 Aug	121	377	335	86	498	421	140	148	266	74	288	340
1-15 Sep	54	117	112	18	171	130	47	74	161	29	121	190
16-30 Sep	137	235	194	27	372	221	185	137	302	35	322	337
1-15 Oct	27	82	0	14	109	14	29	36	27	10	65	37
16-31 Oct	0	0	0	0	0	0	5	14	8	5	19	13
1-15 Nov	9	182	14	20	191	34	2	2	0	0	4	0
Totals	1,509	2,883	3,024	821	4,392	3,845	1,043	830	1,782	312	1,873	2,094

TABLE 5. Semi-monthly counts of 1-SW and M-SW salmon released at Woodstock and those that passed through the Beechwood fish facilities in 1978.

	Released at Woodstock						Ascended Beechwood					
	1-SW		M-SW		Totals		1-SW		M-SW		Totals	
Period	Wild	Hatch	Wild	Hatch	1-SW	M-SW	Wild	Hatch	Wild	Hatch	1-SW	M-SW
1-15 Jun	0	0	6	23	0	29	0	0	0	0	0	0
16-30 Jun	8	11	64	40	19	104	0	0	6	2	0	8
1-15 Jul	178	173	445	275	351	720	24	18	55	30	42	85
16-31 Jul	221	272	221	166	493	387	209	169	274	131	378	405
1-15 Aug	170	246	74	45	416	119	81	100	68	31	181	99
16-31 Aug	35	123	41	18	158	59	10	10	4	3	20	7
1-15 Sep	26	167	145	95	193	240	36	32	61	15	68	76
16-30 Sep	17	60	66	42	77	108	75	58	109	47	133	156
1-15 Oct	48	113	117	40	161	157	33	34	47	24	67	71
16-31 Oct	21	80	52	47	101	99	13	12	22	8	25	30
1-15 Nov	0	0	0	0	0	0	0	0	0	0	0	0
Totals	724	1,245	1,231	791	1,969	2,022	481	433	646	291	914	937

TABLE 6. Semi-monthly counts of 1-SW and M-SW salmon released at Woodstock and those that passed through the Beechwood fish facilities in 1979.

	Released at Woodstock						Ascended Beechwood					
	1-SW		M-SW		Totals		1-SW		M-SW		Totals	
Period	Wild	Hatch	Wild	Hatch	1-SW	M-SW	Wild	Hatch	Wild	Hatch	1-SW	M-SW
1-15 Jun	0	0	0	0	0	0	0	0	0	0	0	0
16-30 Jun	0	1	27	8	1	35	0	0	1	0	0	1
1-15 Jul	993	323	409	147	1,316	556	625	111	291	95	736	386
16-31 Jul	1,217	411	160	48	1,628	208	399	78	51	13	477	64
1-15 Aug	231	186	16	5	417	21	37	10	1	1	47	2
16-31 Aug	117	147	17	3	264	20	368	66	33	16	434	49
1-15 Sep	69	100	33	21	169	54	105	31	10	3	136	13
16-30 Sep	380	342	44	25	722	69	514	450	73	69	964	142
1-15 Oct	141	192	7	8	333	15	458	324	84	48	782	132
16-31 Oct	147	191	9	17	338	26	51	43	12	6	94	18
1-15 Nov	1	15	41	80	16	121	2	0	1	0	2	1
Totals	3,296	1,908	763	362	5,204	1,125	2,559	1,113	557	251	3,672	808

TABLE 7. Semi-monthly counts of 1-SW and M-SW salmon released at Woodstock and those that passed through the Beechwood fish facilities in 1980.

	Released at Woodstock						Ascended Beechwood					
	1-SW		M-SW		Totals		1-SW		M-SW		Totals	
Period	Wild	Hatch	Wild	Hatch	1-SW	M-SW	Wild	Hatch	Wild	Hatch	1-SW	M-SW
1-15 May	0	0	1	0	0	1	0	0	0	0	0	0
16-31 May	0	0	6	0	0	6	0	0	0	0	0	0
1-15 Jun	0	0	0	0	0	0	0	0	6	0	0	0
16-30 Jun	41	57	653	130	98	783	14	2	145	11	16	156
1-15 Jul	671	576	1,239	244	1,247	1,483	79	25	490	34	104	524
16-31 Jul	1,391	1,299	621	99	2,690	720	367	236	270	68	603	338
1-15 Aug	774	986	66	40	1,760	106	407	398	301	83	805	384
16-31 Aug	271	721	152	61	992	213	478	426	218	59	904	277
1-15 Sep	53	250	44	24	303	68	138	99	60	19	237	79
16-30 Sep	340	477	247	36	817	283	253	169	155	15	422	170
1-15 Oct	209	156	133	0	365	133	176	102	86	7	278	93
16-31 Oct	123	296	62	26	419	88	201	80	107	15	281	122
1-15 Nov	0	0	0	0	0	0	3	0	4	0	3	4
Totals	3,873	4,818	3,224	660	8,691	3,884	2,116	1,537	1,842	311	3,653	2,153

TABLE 8. Semi-monthly counts of 1-SW and M-SW salmon released at Woodstock and those that passed through the Beechwood fish facilities in 1981.

	Released at Woodstock						Ascended Beechwood					
	1-SW		M-SW		Totals		1-SW		M-SW		Totals	
Period	Wild	Hatch	Wild	Hatch	1-SW	M-SW	Wild	Hatch	Wild	Hatch	1-SW	M-SW
16-31 May	0	0	3	0	0	3	0	0	0	0	0	0
1-15 Jun	0	0	23	13	0	36	0	0	7	0	0	7
16-30 Jun	4	4	54	10	8	64	0	0	9	3	0	12
1-15 Jul	741	499	407	190	1,240	597	110	32	113	29	142	142
16-31 Jul	859	671	55	24	1,530	79	462	123	162	54	585	216
1-15 Aug	175	140	56	10	315	66	130	64	33	14	194	47
16-31 Aug	23	22	22	8	45	30	130	19	20	7	149	27
1-15 Sep	88	99	56	14	187	70	149	44	48	17	193	65
16-30 Sep	283	400	73	21	683	94	101	19	19	7	120	26
1-15 Oct	51	74	13	7	125	20	151	52	32	13	203	45
16-31 Oct	36	98	15	4	134	19	44	21	14	3	65	17
1-15 Nov	14	91	2	4	105	6	0	0	0	0	0	0
Totals	2,274	2,098	779	305	4,372	1,084	1,277	374	457	147	1,651	604

TABLE 9. Semi-monthly counts of 1-SW and M-SW salmon released at Woodstock and those that passed through the Beechwood fish facilities in 1982.

	Released at Woodstock						Ascended Beechwood					
	1-SW		M-SW		Totals		1-SW		M-SW		Totals	
Period	Wild	Hatch	Wild	Hatch	1-SW	M-SW	Wild	Hatch	Wild	Hatch	1-SW	M-SW
1-15 Jun	0	0	0	0	0	0	0	0	0	0	0	0
16-30 Jun	12	2	121	29	14	150	0	0	5	0	0	5
1-15 Jul	650	162	229	21	812	250	267	4	233	9	271	242
16-31 Jul	973	312	113	21	1,285	134	338	25	72	4	363	76
1-15 Aug	2	0	0	0	2	0	325	28	34	1	353	35
16-31 Aug	113	248	38	3	361	41	161	16	24	1	177	25
1-15 Sep	104	142	45	9	246	54	195	30	26	0	225	26
16-30 Sep	120	128	8	0	248	8	209	107	53	7	316	60
1-15 Oct	50	53	9	1	103	10	120	74	18	1	194	19
16-31 Oct	29	73	13	4	102	17	21	8	2	0	29	2
1-15 Nov	0	0	0	0	0	0	2	0	0	0	2	0
Totals	2,053	1,120	576	88	3,173	664	1,638	292	476	23	1,930	490

TABLE 10. Fallback of tagged 1-SW and M-SW hatchery and wild salmon initially counted over Beechwood Dam, 1977-82 (details in Appendix B).

1	2	3	4	5	6	7	8	9	10	11	12
				Recaptured below Beechwood		Recaptured at Beechwood					Beechwood
Year	Origin	Sea-age	No. tagged fish ascending	Sport fishery	Other	2nd time	3rd time	4th time	Resultant fishway counts[1]	Percentage fallback[2]	correction Factor[3]
1977	Wild	1-SW	0	-	-	-	-	-	-	-	-
	Hatch.	1-SW	40	3	1	2	0	0	42	15.0	0.952
	Wild	M-SW	0	-	-	-	-	-	-	-	-
	Hatch.	M-SW	10	0	0	1	0	0	11	10.0	0.909
1978	Wild	1-SW	57	5	0	7	0	0	64	21.1	0.891
	Hatch.	1-SW	39	2	0	5	1	0	46	20.5	0.848
	Wild	M-SW	63	3	1	4	1	0	69	14.3	0.913
	Hatch.	M-SW	18	1	0	1	0	0	19	11.1	0.947
1979	Wild	1-SW	11	0	0	1	0	0	12	9.1	0.917
	Hatch.	1-SW	73	3	0	11	0	2	90	21.9	0.811
	Wild	M-SW	1	0	0	0	0	0	1	0	1.000
	Hatch.	M-SW	17	0	0	0	1	0	19	5.9	0.895
1980	Wild	1-SW	0	-	-	-	-	-	-	-	-
	Hatch.	1-SW	127	4	1	9	1	0	138	11.8	0.920
	Wild	M-SW	8	0	0	1	0	0	9	12.5	0.889
	Hatch.	M-SW	28	0	0	2	0	0	30	7.1	0.933
1981	Wild	1-SW	0	-	-	-	-	-	-	-	-
	Hatch.	1-SW	23	0	1	2	1	0	27	17.4	0.852
	Wild	M-SW	1	0	0	0	0	0	1	0	1.000
	Hatch.	M-SW	12	0	0	2	0	0	14	16.7	0.857
1982	Wild	1-SW	0	-	-	-	-	-	-	-	-
	Hatch.	1-SW	12	0	0	1	0	0	13	8.3	0.923
	Wild	M-SW	0	-	-	-	-	-	-	-	-
	Hatch.	M-SW	1	0	0	0	0	0	1	0	1.000
1977-82	Wild	1-SW	68	5	0	8	0	0	76	19.1	0.895
	Hatch.	1-SW	314	12	3	30	3	2	356	15.9	0.882
	Wild	M-SW	73	3	1	5	1	0	80	13.7	0.913
	Hatch	M-SW	86	1	0	6	1	0	94	9.3	0.915
1977-82	Total	1-SW	382	17	3	38	3	2	432	16.5	0.884
	Total	M-SW	159	4	1	11	2	0	174	11.3	0.914
1977-82	Grand Total		541	21	4	49	5	2	606	15.0	0.893

1. Summation of Col. 4 + Col. 7 + 2x Col. 8 + 3x Col. 9.
2. Percentage of tagged individuals which drop back over Beechwood, i.e., Col. 5 + 6 + 7, plus no. fish in Col. 8 & 9/Col.4
3. Correction factor to reduce fishway counts to number of individual fish ascending, i.e., Col. 4/Col. 10.

TABLE 11. Annual totals of fish other than Atlantic salmon which passed through Beechwood fish facilities, 1977-82 (Semi-monthly counts in Appendix C).

Species		Numbers of fish					
Common name	Scientific name	1977	1978	1979	1980	1981	1982
Alewife (gaspereau)	Alosa pseudoharengus	369	1,250	507	562	193	138
Catfish (brown bullhead)	Ictalurus nebulosus	322	139	269	88	128	44
Eel, American[1]	Anguilla rostrata	4,436	2,929	2,765	2,587	5,508	831
Lamprey	Petromyzon marinus	0	0	0	1	0	0
Minnows (shiners, etc.)	Cyprinidae	69	182	0	6	0	0
Perch, white	Roccus americanus	63	189	53	21	39	16
Perch, yellow[1]	Perca flavescens	1,567	1,976	3,111	3,655	3,094	2,621
Pickerel, chain	Esox niger	11	5	4	18	11	8
Sebago (landlocked salmon)	Salmo salar	17	17	38	49	100	64
Shad	Alosa sapidissima	0	0	0	0	0	1
Suckers[1]	Catostomus	1,152	832	595	816	631	51
Sunfish (pumpkinseed)	Lepomis gibbosus	33	54	22	5	7	4
Trout, brook (speckled)	Salvelinus fontinalis	387	441	299	426	189	166
Trout, rainbow	Salmo gairdneri	0	0	0	0	2	0
Whitefish	Coregonus	2	5	4	3	1	3

1. Occasionally, daily numbers were estimated.

TABLE 12. Ranges of dissolved oxygen values for water at Beechwood Dam, from June to October in half-month intervals, 1977-82 (Details in Appendix D).

Period	1977		1978		1979		1980		1981		1982	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1-15 Jun	-	-	-	-	-	-	8.0	7.5	6.0	6.0	-	-
16-30 Jun	11.0	10.0	10.0	9.0	10.0	7.5	8.0	8.0	7.5	7.0	8.0	8.0
1-15 Jul	10.0	8.0	8.0	8.0	8.5	7.5	7.5	5.0	7.5	7.0	8.5	8.5
16-31 Jul	9.0	5.0	7.5	5.0	7.5	6.0	6.5	5.0	7.5	7.0	8.0	7.5
1-15 Aug	6.0	5.0	6.0	4.5	6.5	6.0	7.5	6.5	7.5	7.5	8.0	8.0
15-31 Aug	6.0	5.0	5.0	4.5	6.5	6.5	7.5	6.5	7.5	7.5	8.5	8.0
1-15 Sep	7.0	6.0	6.0	5.0	6.5	6.5	7.0	6.0	5.5	5.5	8.5	8.0
16-30 Sep	8.0	6.0	6.0	6.0	6.0	6.0	7.0	6.5	5.0	5.0	8.5	8.5
1-15 Oct	12.0	11.0	6.0	5.5	6.5	6.5	7.0	6.5	7.0	6.5	8.5	8.5
16-31 Oct	13.0	12.0	7.0	5.0	11.0	6.5	7.0	7.0	-	-	8.5	8.0

APPENDIX A

DAILY COUNTS OF 1-SW AND M-SW WILD AND HATCHERY SALMON THROUGH BEECHWOOD DAM FISH FACILITIES, 1977-82.

From 1977 to 1982, a departmental employee oversaw the fish facilities, and counted and examined the fish before they were released from the skip-hoist into the headpond. (The skip hoist was operated by an employee of the N.B.E.P.C.) Normally, four (skip-hoist) lifts (0830, 1100, 1330 & 1630 hours) were made during the week days. Operation of the fish facilities was suspended on weekends and holidays unless it was felt there would be a number of salmon waiting to ascend, and on such days one or two lifts would be made.

A zero in the tables indicates the skip-hoist was operating but no fish were taken; a dash indicates the skip-hoist was not operating.

APPENDIX A

DAILY COUNTS OF 1-SW AND M-SW WILD & HATCHERY SALMON THROUGH BEECHWOOD DAM FISH FACILITIES 1977-82.

	1977				1978				1979				1980				1981				1982			
	1-SW		M-SW		1-SW		M-SW		1-SW		M-SW		1-SW		M-SW		1-SW		M-SW		1-SW		M-SW	
	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat
June																								
10	-	-	-	-	-	-	-	-	-	-	-	-	0	0	2	0	0	0	0	0	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	0	-	3	-	0	0	0	0	-	-	-	-
12	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	1	0	-	-	-	-
13	-	-	-	-	0	0	0	0	-	-	-	-	0	0	1	0	-	-	-	-	-	-	-	-
14	-	-	-	-	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	0	0	0	0
15	-	-	-	-	0	0	0	0	0	0	0	0	-	-	-	-	0	0	6	0	0	0	0	0
16	-	-	-	-	0	0	0	0	-	-	-	-	0	0	0	0	0	0	1	0	0	0	0	0
17	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
18	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	-	-	-	-	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	-	-	-	-
20	1	0	0	0	0	0	1	1	0	0	0	0	3	0	17	0	-	-	-	-	-	-	-	-
21	0	0	0	0	0	0	1	1	0	0	0	0	3	0	12	0	-	-	-	-	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0	0	1	0	0	0	0	0
23	0	0	0	0	0	0	0	0	-	-	-	-	0	1	24	4	0	0	0	0	0	0	0	0
24	0	0	1	0	-	-	-	-	-	-	-	-	0	0	0	4	0	0	4	1	0	0	0	0
25	-	-	-	-	-	-	-	-	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0
26	-	-	-	-	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	-	-	-	-
27	0	0	0	0	0	0	0	0	0	0	0	0	1	0	9	1	-	-	-	-	-	-	-	-
28	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	0	0	1	0
29	0	0	2	0	0	0	0	0	0	0	1	0	3	1	45	2	0	0	0	2	0	0	3	0
30	1	0	0	1	0	0	2	0	-	-	-	-	4	0	26	3	0	0	0	0	0	0	1	0
July																								
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	1	0	0	0	1	0
2	-	-	-	-	-	-	-	-	0	0	0	0	6	3	56	3	0	2	3	0	2	0	14	1
3	0	1	0	0	1	0	1	1	0	0	1	1	1	2	12	1	0	0	3	1	-	-	-	-
4	0	0	1	0	0	0	1	0	1	0	5	2	2	0	24	1	-	-	-	-	4	0	39	2
5	0	0	0	0	0	2	0	0	3	0	1	0	6	4	70	6	-	-	-	-	1	0	6	0
6	0	0	0	0	1	0	0	0	14	1	10	2	4	0	27	2	7	2	22	4	0	0	0	0
7	0	1	0	0	1	0	5	1	1	0	3	0	7	3	98	9	2	2	2	4	2	0	6	0
8	1	2	0	1	2	2	5	1	28	0	45	16	5	0	17	3	9	1	12	4	1	0	4	0
9	-	-	-	-	-	-	-	-	15	3	17	5	0	0	6	0	3	1	9	0	34	0	33	2
10	-	-	-	-	9	6	38	23	17	1	22	7	3	0	9	0	1	0	1	1	15	0	14	2
11	5	2	11	0	4	4	2	2	45	7	40	10	6	3	22	1	-	-	-	-	61	4	45	1
12	21	11	66	8	5	4	0	0	57	5	19	5	14	4	75	3	-	-	-	-	50	0	36	1
13	7	3	18	2	0	0	0	0	29	5	14	3	1	0	9	2	61	18	38	9	9	0	8	0
14	40	21	44	4	1	0	3	2	41	12	15	5	21	5	60	3	9	1	10	3	33	0	11	0
15	40	16	48	5	-	-	-	-	374	77	99	39	3	1	5	0	18	5	12	3	55	0	16	0
16	-	-	-	-	-	-	-	-	21	5	13	3	17	4	19	1	17	1	5	2	35	1	13	0
17	28	17	57	7	11	2	13	3	16	1	3	1	10	1	11	1	23	4	9	2	19	2	4	0
18	43	41	53	16	7	6	10	4	39	3	1	0	8	4	15	4	3	1	1	0	-	-	-	-
19	37	18	62	14	7	6	10	5	40	9	4	0	15	4	8	2	-	-	-	-	48	5	11	0
20	19	15	38	11	5	5	5	5	33	7	6	3	-	-	-	-	46	12	21	10	36	1	10	1
21	26	40	59	8	9	8	8	6	21	2	1	0	36	15	37	3	12	4	4	4	35	2	7	0

APPENDIX A
(Continued)

	1977				1978				1979				1980				1981				1982			
	I-SW		M-SW		I-SW		M-SW		I-SW		M-SW		I-SW		M-SW		I-SW		M-SW		I-SW		M-SW	
	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat
22	39	20	35	7	12	11	8	7	89	12	11	3	6	5	11	6	20	3	4	2	11	0	1	0
23	48	20	70	3	15	13	29	15	7	0	0	0	9	2	3	1	51	10	15	2	14	0	4	0
24	38	20	52	15	27	18	21	9	19	6	1	1	21	9	14	4	34	11	11	5	-	-	-	-
25	19	6	29	4	37	14	45	13	18	3	3	1	24	10	12	1	18	6	9	4	-	-	-	-
26	23	6	36	5	28	17	36	21	19	6	0	0	10	8	8	2	62	11	30	8	9	7	1	1
27	21	10	32	3	9	15	23	13	16	8	1	0	-	-	-	-	57	13	24	2	14	0	3	1
28	24	11	35	3	14	14	12	6	-	-	-	-	42	37	19	6	18	6	8	4	33	2	11	0
29	16	7	23	4	2	12	11	2	13	1	1	0	64	64	57	20	44	13	16	7	20	2	3	1
30	15	5	25	2	3	6	7	5	33	9	4	1	59	40	27	10	33	17	5	0	24	0	3	0
31	-	-	-	-	23	22	36	17	15	6	2	0	46	33	29	7	24	11	0	2	40	3	1	0
August																								
1	23	13	27	2	3	7	10	5	6	3	0	0	71	61	76	15	-	-	-	-	-	-	-	-
2	29	23	55	11	0	2	2	0	5	0	0	0	40	41	48	16	43	20	8	6	81	7	7	0
3	8	13	45	2	3	0	0	0	2	0	0	0	21	24	16	7	-	-	-	-	115	10	12	1
4	20	15	32	9	2	0	1	0	-	-	-	-	6	1	8	0	47	36	20	7	19	3	3	0
5	14	10	20	1	2	0	0	0	-	-	-	-	53	31	37	11	35	8	5	0	28	1	4	0
6	-	-	-	-	-	-	-	-	-	-	-	-	36	39	21	6	2	0	0	0	8	0	1	0
7	0	2	0	0	-	-	-	-	6	4	0	1	19	8	11	0	1	0	0	0	-	-	-	-
8	4	5	3	1	44	58	30	16	0	0	0	0	19	23	11	5	-	-	-	-	-	-	-	-
9	5	1	2	0	3	6	0	2	5	0	0	0	-	-	-	-	-	-	-	-	50	6	1	0
10	3	9	6	0	5	2	9	2	3	3	0	0	47	38	16	11	-	-	-	-	1	0	1	0
11	3	2	6	1	6	9	10	3	-	-	-	-	21	25	19	4	-	-	-	-	8	1	1	0
12	1	8	1	4	3	3	2	0	-	-	-	-	22	37	11	3	-	-	-	-	10	0	4	0
13	-	-	-	-	-	-	-	-	1	0	0	0	14	15	3	3	-	-	-	-	5	0	0	0
14	-	-	-	-	5	8	1	2	0	0	0	0	34	46	23	2	2	0	0	1	-	-	-	-
15	13	25	24	5	5	5	3	1	9	0	1	0	4	9	1	0	-	-	-	-	-	-	-	-
16	20	19	28	6	3	3	1	0	16	2	0	0	-	-	-	-	-	-	-	-	12	0	1	0
17	5	11	15	3	1	1	0	1	22	4	2	0	52	54	29	6	-	-	-	-	0	0	0	0
18	5	7	11	4	0	0	0	0	-	-	-	-	27	27	11	2	-	-	-	-	12	0	3	0
19	4	4	12	2	-	-	-	-	19	2	2	2	22	12	15	5	-	-	-	-	11	1	0	0
20	-	-	-	-	-	-	-	-	15	3	3	0	22	20	14	6	-	-	-	-	20	1	0	1
21	-	-	-	-	3	5	0	0	24	3	2	0	62	39	20	10	-	-	-	-	-	-	-	-
22	4	3	9	5	1	0	0	0	5	5	0	1	38	34	11	4	-	-	-	-	-	-	-	-
23	9	2	11	2	0	1	0	0	69	12	7	0	-	-	-	-	-	-	-	-	32	8	7	0
24	7	6	13	2	0	0	0	1	40	4	5	4	54	47	26	11	-	-	-	-	5	0	0	0
25	11	7	21	5	0	0	0	0	16	1	0	0	63	72	30	4	22	2	3	2	9	0	4	0
26	9	11	16	9	-	-	-	-	-	-	-	-	60	51	22	8	11	0	2	1	5	0	2	0
27	-	-	-	-	-	-	-	-	65	15	4	1	17	11	11	0	13	0	1	0	23	4	5	0
28	-	-	-	-	1	0	0	0	33	7	3	3	8	7	2	0	32	6	6	1	-	-	-	-
29	16	20	47	19	0	0	0	0	17	5	2	2	26	21	11	1	-	-	-	-	-	-	-	-
30	36	46	54	10	1	0	0	0	9	1	1	3	25	26	13	1	-	-	-	-	22	1	2	0
31	14	12	29	7	0	0	3	1	18	2	2	0	2	5	3	1	52	11	8	3	10	1	0	0

APPENDIX A
(Continued)

	1977				1978				1979				1980				1981				1982			
	I-SW		M-SW		I-SW		M-SW		I-SW		M-SW		I-SW		M-SW		I-SW		M-SW		I-SW		M-SW	
	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat
September																								
1	6	13	28	4	0	1	0	1	-	-	-	-	4	7	1	1	8	4	1	1	8	0	1	0
2	4	13	13	1	-	-	-	-	-	-	-	-	10	9	5	2	30	6	10	2	3	0	0	0
3	-	-	-	-	-	-	-	-	32	10	4	1	11	6	1	1	3	3	2	1	16	1	3	0
4	1	2	10	1	-	-	-	-	23	7	2	1	12	6	3	1	33	15	6	6	-	-	-	-
5	-	-	-	-	5	4	8	2	23	2	2	1	6	2	1	1	-	-	-	-	18	0	1	0
6	8	9	13	1	5	4	6	1	8	0	0	0	-	-	-	-	24	4	11	1	-	-	-	-
7	6	9	14	6	0	0	2	0	7	9	0	0	12	16	7	0	-	-	-	-	7	0	2	0
8	5	5	6	3	0	0	1	0	-	-	-	-	11	5	6	1	12	3	5	3	12	2	4	0
9	0	0	0	0	-	-	-	-	-	-	-	-	12	4	1	0	4	2	2	1	5	2	0	0
10	-	-	-	-	-	-	-	-	5	3	1	0	22	11	9	2	9	2	1	0	24	9	0	0
11	-	-	-	-	1	4	3	0	2	0	1	0	11	10	7	1	10	1	3	1	-	-	-	-
12	3	7	14	4	1	0	3	0	1	0	0	0	5	5	4	5	-	-	-	-	-	-	-	-
13	7	4	15	3	5	3	5	2	0	0	0	0	-	-	-	-	-	-	-	-	46	7	4	0
14	2	4	23	4	6	7	14	4	4	0	0	0	-	-	-	-	12	4	4	1	32	5	7	0
15	5	8	25	2	13	9	19	5	-	-	-	-	22	18	15	4	4	0	3	0	24	4	4	0
16	6	10	15	4	-	-	-	-	-	-	-	-	4	5	1	0	5	2	2	1	28	17	4	0
17	-	-	-	-	-	-	-	-	10	11	3	0	28	19	15	1	8	3	1	0	21	6	2	0
18	-	-	-	-	11	16	30	9	8	4	2	1	18	21	19	1	18	1	4	0	-	-	-	-
19	7	6	28	8	7	4	10	3	2	0	0	0	17	11	9	1	-	-	-	-	-	-	-	-
20	12	6	29	1	6	6	16	2	23	7	4	1	-	-	-	-	-	-	-	-	60	31	21	3
21	16	13	16	2	6	5	12	2	23	23	5	3	-	-	-	-	21	4	1	2	5	1	2	0
22	35	6	39	1	9	3	5	6	-	-	-	-	27	20	26	2	-	-	-	-	5	1	1	0
23	13	14	20	2	-	-	-	-	75	71	10	6	19	15	12	2	14	2	1	1	8	5	2	0
24	-	-	-	-	-	-	-	-	84	78	15	13	20	7	15	1	7	2	4	0	7	1	2	1
25	-	-	-	-	14	5	20	11	50	50	5	8	33	28	19	3	18	3	3	3	-	-	-	-
26	10	9	17	1	9	7	4	6	57	40	8	9	16	4	4	1	-	-	-	-	-	-	-	-
27	50	39	88	12	7	5	9	1	80	62	9	8	-	-	-	-	-	-	-	-	11	9	3	1
28	24	21	34	2	4	5	3	3	73	63	9	10	-	-	-	-	10	2	3	0	19	7	9	0
29	6	6	6	1	2	2	0	4	24	28	3	6	55	34	32	3	-	-	-	-	24	12	6	0
30	6	7	10	1	-	-	-	-	5	13	0	4	16	5	3	0	-	-	-	-	21	17	1	2
October																								
1	-	-	-	-	-	-	-	-	72	47	11	5	0	0	0	0	-	-	-	-	33	8	2	0
2	-	-	-	-	9	7	13	6	47	30	11	11	11	1	5	0	-	-	-	-	11	10	5	0
3	0	0	0	0	4	4	9	1	39	36	10	3	8	7	2	0	-	-	-	-	-	-	-	-
4	0	0	0	0	3	6	2	3	51	45	7	3	-	-	-	-	-	-	-	-	5	4	0	0
5	0	1	1	0	0	3	2	3	38	31	9	4	-	-	-	-	52	15	8	4	21	13	4	0
6	0	0	0	0	12	10	13	6	-	-	-	-	51	25	31	4	36	14	8	2	14	11	0	0
7	7	6	6	2	-	-	-	-	50	34	8	9	13	8	8	0	11	4	5	1	15	8	1	0
8	-	-	-	-	-	-	-	-	20	15	7	1	21	12	8	0	4	1	1	0	3	2	1	0
9	-	-	-	-	-	-	-	-	46	18	9	4	19	9	4	1	9	2	2	1	-	-	-	-
10	-	-	-	-	5	4	2	1	28	26	6	1	6	4	4	0	-	-	-	-	-	-	-	-
11	4	2	3	2	0	0	5	0	20	17	1	1	-	-	-	-	-	-	-	-	-	-	-	-
12	13	21	11	5	0	0	1	2	17	10	1	1	-	-	-	-	-	-	-	-	5	6	0	0
13	0	0	0	0	0	0	0	2	-	-	-	-	35	23	15	2	19	9	6	5	4	3	2	1

APPENDIX A
(Continued)

	1977				1978				1979				1980				1981				1982			
	1-SW		M-SW		1-SW		M-SW		1-SW		M-SW		1-SW		M-SW		1-SW		M-SW		1-SW		M-SW	
	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat	Wild	Hat
October																								
14	5	6	6	1	-	-	-	-	-	-	-	-	7	7	5	0	5	0	1	0	5	6	3	0
15	-	-	-	-	-	-	-	-	30	15	4	5	5	6	4	0	15	7	1	0	4	3	0	0
16	-	-	-	-	4	8	11	3	2	5	1	1	29	7	13	1	15	2	5	1	-	-	-	-
17	0	0	0	0	3	1	6	0	4	4	2	0	8	8	4	0	-	-	-	-	-	-	-	-
18	0	0	0	0	0	0	1	1	4	7	0	0	-	-	-	-	-	-	-	-	2	0	0	0
19	0	0	0	1	2	2	1	0	0	0	0	0	-	-	-	-	21	18	9	2	0	0	0	0
20	0	0	0	0	0	0	0	1	-	-	-	-	32	17	16	5	-	-	-	-	7	4	0	0
21	0	0	0	0	-	-	-	-	-	-	-	-	28	15	20	3	-	-	-	-	2	1	1	0
22	-	-	-	-	-	-	-	-	18	14	4	2	54	16	15	2	8	1	0	0	0	0	0	0
23	-	-	-	-	0	1	1	0	6	1	1	0	11	7	10	0	-	-	-	-	-	-	-	-
24	1	2	1	0	0	0	0	0	3	0	0	0	21	5	18	3	-	-	-	-	-	-	-	-
25	1	3	1	1	0	0	0	0	5	3	1	1	-	-	-	-	-	-	-	-	2	2	0	0
26	1	1	0	1	0	0	0	1	0	0	0	0	-	-	-	-	-	-	-	-	3	0	0	0
27	0	0	0	0	0	0	1	1	-	-	-	-	16	5	11	1	-	-	-	-	0	0	0	0
28	0	3	3	0	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	1	0	1	0
29	-	-	-	-	-	-	-	-	7	9	2	2	2	0	0	0	-	-	-	-	4	1	0	0
30	-	-	-	-	4	0	0	1	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-
31	2	5	3	2	0	0	1	0	2	0	1	0	0	0	0	0	-	-	-	-	-	-	-	-
November																								
1	0	0	0	0	-	-	-	-	2	0	1	0	-	-	-	-	-	-	-	-	2	0	0	0
2	1	2	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
3	1	0	0	0	-	-	-	-	-	-	-	-	1	0	4	0	-	-	-	-	0	0	0	0
4	-	-	-	-	-	-	-	-	-	-	-	-	2	0	0	0	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-
11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-
Totals																								
	1043	830	1782	312	481	433	646	291	2559	1113	557	251	2116	1537	1842	311	1277	374	457	147	1638	292	467	23

APPENDIX B

SUMMARY OF TAGGED 1-SW AND M-SW SALMON THROUGH BEECHWOOD FISH FACILITIES, 1977-82

The following tables list the tag number, location and date of release above Mactaquac, the age, sex and origin of the fish and the date it ascended Beechwood fish facilities. Sex distinction is made from observations of external characteristics. Remarks include information on the fish which would help determine the percentage of fallback. Except where otherwise noted, tags were small blue modified Carlin type.

Data tabulations in the various columns are coded as follows:

Release locations -

a - Mactaquac headpond, just above Woodstock, in the upper area of the reservoir.

b - Tobique headpond; dumpsite located in the upper section of the headpond.

c - Perth-Andover.

d - Becguimec River.

Sex -

M - male

F - female

Origin -

W - wild

H - hatchery

TABLE B-1. Tagged 1-SW and M-SW salmon through Beechwood fish facilities in 1977.

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
K6471	b	20 Jul	11 Oct	76	M-SW	M	H	
K7407	a	7 Jul	12 Jul	81	M-SW	F	H	
K7460	a	10 Jul	14 Jul	76	M-SW	F	H	Also through Beechwood on 20 Jul.
K7502	a	17 Jul	18 Jul	69	M-SW	M	H	
K9748	a	6 Sep	14 Sep	70	M-SW	M	H	
K12179	a	14 Jul	21 Jul	71	M-SW	F	H	
K16945	a	18 Jul	22 Jul	63	M-SW	F	H	
K17104	a	11 Jul	21 Jul	77	M-SW	F	H	
K20991	a	14 Jul	19 Jul	74	M-SW	F	H	
K22902	a	11 Jul	21 Jul	73	M-SW	M	H	
A20404	a	7 Jul	14 Jul	53	1-SW	M	H	Angled 5 Sep below Beechwood Dam.
A21339	a	24 Aug	6 Sep	51	1-SW	M	H	Also through Beechwood on 12 Oct.
A23892	a	14 Jul	1 Aug	55	1-SW	M	H	
A26202	-	-	31 Aug	60	1-SW	-	H	
A26549	b	18 Jul	12 Oct	59	1-SW	M	H	
A26823	b	27 Jul	14 Oct	54	1-SW	M	H	
A27275	a	19 Aug	12 Sep	56	1-SW	M	H	
A27380	b	22 Jul	28 Sep	54	1-SW	M	H	
A27803	b	8 Jul	21 Sep	54	1-SW	M	H	
A27852	a	13 Jul	18 Jul	57	1-SW	M	H	Also through Beechwood on 2 Aug.
A28322	b	13 Jul	18 Aug	56	1-SW	M	H	Angled 26 Aug below Beechwood Dam.
A28392	b	12 Jul	15 Aug	60	1-SW	M	H	
A28395	b	21 Jul	26 Sep	58	1-SW	M	H	
A28480	a	10 Jul	14 Jul	58	1-SW	M	H	
A28811	a	29 Jul	14 Sep	54	1-SW	M	H	Returned to Mactaquac on 28 Oct.
A28856	a	14 Jul	18 Jul	56	1-SW	M	H	
A29490	a	14 Jul	25 Jul	58	1-SW	M	H	
A29882	a	13 Jul	21 Jul	55	1-SW	M	H	
A30172	a	6 Sep	20 Sep	58	1-SW	M	H	
A31133	-	-	15 Jul	52	1-SW	-	H	
A31256	a	24 Aug	30 Aug	58	1-SW	M	H	
A31517	b	13 Jul	14 Jul	56	1-SW	M	H	
A31568	b	11 Jul	23 Jul	55	1-SW	M	H	
A31646	b	13 Jul	30 Aug	55	1-SW	M	H	
A31748	-	-	30 Aug	56	1-SW	-	H	
A31936	-	-	14 Jul	58	1-SW	-	H	
A33203	a	6 Jul	28 Sep	59	1-SW	M	H	
A34295	a	19 Aug	26 Aug	55	1-SW	M	H	
A34334	-	-	29 Sep	58	1-SW	-	H	
A34426	b	17 Jul	30 Aug	56	1-SW	M	H	
A35584	a	8 Aug	30 Aug	57	1-SW	M	H	
A36093	b	16 Jul	17 Aug	56	1-SW	M	H	
A37680	a	24 Jul	8 Aug	56	1-SW	M	H	
H10776	a	24 Jul	19 Aug	53	1-SW	M	H	
H10784	a	14 Jul	21 Jul	56	1-SW	M	H	
H11213	b	3 Aug	17 Aug	58	1-SW	M	H	
H13981	a	18 Jul	24 Jul	63	1-SW	M	H	
H13989	a	11 Jul	15 Jul	54	1-SW	M	H	
2027[1]	b	18 Jul	15 Aug	55	1-SW	M	H	
2029[1]	a	19 Jul	24 Jul	59	1-SW	M	H	Angled 9 Sep at Longs Creek.

1. Large, orange, modified Carlin tag.

TABLE B-2. Tagged 1-SW and M-SW salmon through Beechwood fish facilities in 1978.

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
M79001	a	4 Jul	10 Jul	73	M-SW	F	W	
M79011	-	-	21 Sep	78	M-SW	M	W	
M79013	a	8 Jul	23 Jul	80	M-SW	F	W	
M79024	a	4 Jul	11 Jul	79	M-SW	F	W	Found dead on 18 Jul at Bath.
M79026	a	3 Jul	19 Jul	81	M-SW	F	W	Also through Beechwood on 14 Sep.
M79038	a	13 Jul	26 Jul	80	M-SW	F	H	Angled 23 Aug at Bath.
M79039	a	7 Jul	29 Jul	70	M-SW	F	W	
M79047	a	10 Jul	25 Jul	83	M-SW	F	H	
M79075	a	11 Jul	27 Jul	77	M-SW	F	W	
M79077	a	17 Jul	11 Aug	83	M-SW	F	H	
M79084	a	17 Jul	22 Jul	80	M-SW	F	H	
M79091	a	30 Aug	28 Sep	84	M-SW	F	H	
M79109	a	20 Jul	27 Jul	58	1-SW	M	H	
M79122	a	24 Jul	27 Sep	77	M-SW	F	W	
M79127	a	22 Jul	11 Aug	58	1-SW	M	H	
M79138	a	30 Aug	15 Sep	60	1-SW	M	H	Also through Beechwood on 6 Oct.
N79149	a	22 Jul	18 Sep	58	1-SW	M	H	
M79154	a	22 Jul	25 Jul	57	1-SW	M	W	Also through Beechwood on 3 Aug.
M79172	a	22 Jul	25 Jul	78	M-SW	F	W	
M79186	-	-	26 Jul	77	M-SW	F	W	
M79190	a	1 Aug	8 Aug	55	1-SW	M	W	
M79218	a	15 Sep	2 Oct	84	M-SW	M	W	
M79234	a	1 Aug	21 Aug	58	1-SW	M	H	
M79240	a	22 Jul	31 Jul	80	M-SW	F	H	
M79245	a	22 Jul	26 Jul	61	1-SW	M	H	
M79248	a	22 Jul	24 Jul	81	M-SW	F	W	
M79253	a	24 Jul	5 Aug	55	1-SW	M	W	
M79257	a	30 Aug	6 Sep	81	M-SW	F	H	
M79263	a	15 Sep	19 Oct	93	M-SW	F	W	
M79269	a	20 Jul	26 Jul	61	1-SW	M	H	
M79279	a	22 Jul	25 Jul	56	1-SW	M	W	
M79283	a	4 Oct	6 Oct	84	M-SW	F	W	
M79312	a	22 Aug	2 Oct	59	1-SW	M	W	
M79318	a	22 Aug	12 Sep	56	1-SW	M	W	
M79364	a	11 Aug	29 Sep	82	M-SW	F	H	
M79396	-	-	15 Sep	84	M-SW	F	W	
M79525	a	4 Oct	10 Oct	63	1-SW	M	H	
M79536	a	29 Sep	6 Oct	56	1-SW	M	W	
M79546	a	29 Sep	16 Oct	61	1-SW	F	W	
M79551	a	29 Sep	10 Oct	52	1-SW	M	W	
A22697	b	20 Jul	20 Oct	79	M-SW	M	H	
A27093	a	7 Jul	14 Jul	77	M-SW	F	H	
A30175	a	13 Jul	21 Jul	79	M-SW	F	H	
A31563	a	13 Jul	15 Aug	80	M-SW	M	H	
A34673	a	29 Jun	14 Sep	80	M-SW	F	H	
A36326	a	8 Jul	3 Oct	80	M-SW	F	H	
H11447	a	10 Jul	26 Oct	76	M-SW	F	H	
H12963	a	3 Jul	31 Jul	78	M-SW	F	H	
H13257	a	17 Jul	23 Jul	75	M-SW	F	H	
H50974	a	22 Jul	28 Sep	56	1-SW	M	H	
H51842	a	17 Jul	25 Sep	55	1-SW	M	H	
H52731	a	21 Jul	11 Aug	55	1-SW	M	H	
H53062	a	22 Jul	30 Jul	59	1-SW	M	H	
H54456	b	9 Jul	28 Jul	56	1-SW	M	H	
H55837	a	22 Jul	25 Jul	57	1-SW	M	H	
H56025	a	8 Jul	18 Jul	56	1-SW	M	H	
H56300	a	20 Jul	31 Jul	63	1-SW	M	H	
H57033	a	1 Aug	8 Aug	63	1-SW	M	H	
H59917	a	24 Jul	20 Sep	60	1-SW	M	H	
H60061	a	30 Aug	11 Sep	55	1-SW	M	H	Also through Beechwood on 27 Sep.
H61186	a	4 Aug	4 Oct	58	1-SW	M	H	
H61187	a	22 Jul	25 Jul	60	1-SW	M	H	
H61633	a	24 Jul	26 Jul	61	1-SW	M	H	Also through Beechwood on 6 Oct.

TABLE B-2. (Continued)

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
H61662	b	4 Jul	11 Jul	57	1-SW	M	H	
H62242	a	24 Jul	31 Jul	65	1-SW	M	H	
H63614	a	22 Jul	31 Jul	57	1-SW	M	H	
H63914	a	24 Jul	29 Jul	61	1-SW	M	H	Also through Beechwood on 1 Aug.
H65049	a	1 Aug	8 Aug	61	1-SW	M	H	Angled 19 Aug at Bath.
H65223	a	20 Jul	24 Jul	57	1-SW	M	H	Also through Beechwood on 16 Oct.
H68108	a	11 Jul	4 Oct	61	1-SW	M	H	
H70137	a	22 Aug	21 Sep	55	1-SW	M	H	
H73168	-	-	1 Sep	55	1-SW	-	H	
H83183	a	11 Jul	21 Jul	54	1-SW	M	H	Angled 1 Aug at Hartland.
K5333	b	21 Jun	25 Sep	69	M-SW	F	H	Also through Beechwood on 28 Sep.
P65060	a	20 Jul	17 Oct	58	1-SW	M	H	
P65270	a	3 Jul	23 Jul	64	1-SW	M	H	
P68142	a	4 Aug	8 Aug	61	1-SW	M	H	
P68452	a	17 Jul	23 Jul	58	1-SW	M	H	
P69289	a	29 Jun	5 Jul	58	1-SW	M	H	Also through Beechwood on 10 & 18 Jul.
P69756	a	30 Aug	25 Sep	56	1-SW	M	H	
P77358	a	11 Aug	18 Sep	58	1-SW	M	H	
T19628	b	27 Jun	23 Jul	51	1-SW	M	W	
T19700	a	8 Jul	22 Jul	53	1-SW	M	W	
T19703	a	7 Jul	21 Jul	55	1-SW	M	W	Angled Aug 78 at Hartland.
T19708	a	7 Jul	10 Jul	53	1-SW	M	W	
T19711	a	4 Jul	12 Jul	61	1-SW	M	W	
T19716	a	8 Jul	23 Jul	55	1-SW	M	W	
T19717	a	4 Jul	23 Jul	82	M-SW	F	W	
T19719	a	7 Jul	18 Jul	58	1-SW	M	W	
T19722	a	8 Jul	12 Jul	51	1-SW	M	W	
T19725	a	8 Jul	24 Jul	56	1-SW	M	W	
T19727	a	8 Jul	22 Sep	49	1-SW	M	W	
T19730	a	8 Jul	25 Sep	55	1-SW	M	W	
T19736	a	7 Jul	17 Jul	53	1-SW	M	W	
T19737	a	4 Jul	21 Jul	77	M-SW	F	W	
T19738	a	8 Jul	24 Jul	58	1-SW	M	W	
T19739	a	4 Jul	10 Jul	59	1-SW	M	W	Also through Beechwood on 17 Jul.
T19740	a	8 Jul	21 Jul	54	1-SW	M	W	
T19741	a	8 Jul	22 Jul	56	1-SW	M	W	Also through Beechwood on 28 Sep.
T19743	a	8 Jul	26 Jul	54	1-SW	M	W	
T19745	a	8 Jul	10 Jul	52	1-SW	M	W	
T19746	a	4 Jul	16 Oct	75	M-SW	F	W	
T19747	a	4 Jul	10 Jul	78	M-SW	F	W	Also through Beechwood on 22 Sep.
T19748	a	7 Jul	26 Jul	55	1-SW	M	W	Angled 4 Sep at Hartland.
T19751	a	8 Jul	14 Jul	50	1-SW	M	W	
T19754	a	7 Jul	25 Jul	52	1-SW	M	W	
T19755	a	8 Jul	25 Jul	56	1-SW	M	W	
T19756	a	7 Jul	1 Aug	58	1-SW	M	W	
T19759	a	8 Jul	26 Jul	58	1-SW	M	W	
T19760	a	8 Jul	18 Jul	56	1-SW	M	W	
T19763	a	4 Jul	18 Jul	72	M-SW	F	W	
T19764	a	7 Jul	25 Sep	54	1-SW	M	W	
T19765	a	8 Jul	17 Jul	56	1-SW	M	W	Also through Beechwood on 26 Jul.
T19767	a	8 Jul	21 Sep	51	1-SW	M	W	Also through Beechwood on 28 Sep.
T19768	a	7 Jul	19 Jul	51	1-SW	M	W	
T19769	a	4 Jul	10 Jul	56	1-SW	M	W	
T19771	a	4 Jul	28 Sep	78	M-SW	F	W	
T19773	a	7 Jul	23 Jul	55	1-SW	M	W	
T19777	a	8 Jul	21 Jul	55	1-SW	M	W	Angled 13 Aug at Bath.
T19779	a	7 Jul	10 Jul	53	1-SW	M	W	Angled 30 Jul at Bath.
T19780	a	8 Jul	21 Jul	52	1-SW	M	W	
T19781	a	4 Jul	10 Jul	52	1-SW	M	W	Also through Beechwood on 18 Jul.
T19782	a	7 Jul	11 Jul	51	1-SW	M	W	
T19788	a	4 Jul	10 Jul	80	M-SW	F	W	
T19789	a	8 Jul	26 Jul	58	1-SW	M	W	Angled 21 Aug at Hartland.
T19794	a	4 Jul	24 Jul	59	1-SW	M	W	

TABLE B-2. (Continued)

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
T19799	a	8 Jul	25 Sep	56	1-SW	M	W	
T19800	a	29 Jun	10 Jul	70	M-SW	F	W	
T19802	a	29 Jun	10 Jul	76	M-SW	F	W	
T19803	a	29 Jun	8 Jul	80	M-SW	F	W	Also through Beechwood on 8 Aug & 8 Sep.
T19805	a	29 Jun	18 Sep	74	M-SW	F	W	
T19806	a	29 Jun	10 Jul	78	M-SW	M	W	Also through Beechwood on 26 Jul.
T19809	a	29 Jun	10 Jul	78	M-SW	F	W	
T19810	a	29 Jun	10 Jul	78	M-SW	F	W	
T19811	a	29 Jun	3 Jul	56	1-SW	M	W	
T19813	a	29 Jun	19 Jul	77	M-SW	F	W	
T19817	a	29 Jun	4 Jul	82	M-SW	F	W	Angled 24 Jul at Bath.
T19818	a	29 Jun	10 Jul	53	1-SW	M	W	
T19819	a	29 Jun	10 Jul	82	M-SW	F	W	
T19821	a	29 Jun	28 Sep	74	M-SW	F	W	
T19822	a	29 Jun	26 Jul	83	M-SW	F	W	
T19823	a	29 Jun	7 Sep	79	M-SW	F	W	
T19824	a	29 Jun	10 Jul	79	M-SW	F	W	
T19826	a	29 Jun	22 Jul	73	M-SW	M	W	Angled 25 Jul at Bath.
T19830	a	29 Jun	19 Jul	57	1-SW	M	W	
T19832	a	29 Jun	10 Jul	51	1-SW	M	W	
T19835	a	29 Jun	3 Jul	77	M-SW	F	W	
T19838	a	29 Jun	25 Sep	80	M-SW	F	W	
T19839	a	29 Jun	20 Jul	78	M-SW	F	W	
T19840	a	29 Jun	18 Jul	55	1-SW	M	W	
T19842	a	29 Jun	18 Jul	75	M-SW	F	W	
T19843	a	29 Jun	8 Jul	77	M-SW	F	W	
T19844	a	29 Jun	25 Sep	77	M-SW	M	W	
T19845	a	29 Jun	31 Aug	79	M-SW	F	W	
T19851	a	29 Jun	27 Sep	80	M-SW	F	W	
T19858	a	29 Jun	10 Jul	77	M-SW	F	W	Also through Beechwood on 20 Sep.
T19861	a	29 Jun	24 Jul	60	1-SW	M	W	
T19865	a	29 Jun	7 Jul	78	M-SW	F	W	
T19872	a	3 Jul	14 Sep	78	M-SW	F	W	
T19874	a	3 Jul	2 Oct	79	M-SW	F	W	
T19875	a	3 Jul	23 Jul	76	M-SW	F	W	
T19877	a	3 Jul	25 Sep	78	M-SW	F	W	
T19879	a	3 Jul	11 Jul	55	1-SW	M	W	
T19880	a	3 Jul	10 Jul	81	M-SW	F	W	
T19881	a	3 Jul	17 Jul	64	1-SW	M	W	
T19882	a	3 Jul	18 Jul	79	M-SW	F	W	
T19885	a	3 Jul	10 Jul	80	M-SW	F	W	
T19887	a	3 Jul	15 Sep	80	M-SW	F	W	
T19888	a	3 Jul	10 Jul	86	M-SW	M	W	
T19889	a	3 Jul	24 Jul	75	M-SW	F	W	
T19890	a	3 Jul	10 Jul	74	M-SW	F	W	Angled 30 Jul at Bath.
T19893	a	3 Jul	8 Aug	78	M-SW	F	W	
T19894	a	3 Jul	23 Jul	80	M-SW	M	W	
T19895	a	3 Jul	20 Sep	81	M-SW	F	W	
T19897	a	3 Jul	23 Jul	77	M-SW	F	W	
T19898	a	3 Jul	14 Sep	82	M-SW	F	W	
T19971	b	11 Jul	17 Jul	56	1-SW	M	W	Also through Beechwood on 26 Jul.

TABLE B-3. Tagged 1-SW and M-SW salmon through Beechwood fish facilities in 1979.

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
A35882	a	9 Jul	15 Jul	82	M-SW	F	H	
H48522	a	2 Jul	15 Jul	79	M-SW	M	H	
H51120	b	13 Jul	25 Sep	77	M-SW	F	H	Also through Beechwood on 2 & 16 Oct.
H52482	a	3 Jul	14 Jul	75	M-SW	F	H	
H53702	a	3 Jul	8 Jul	76	M-SW	F	H	
H55276	b	4 Jul	30 Sep	75	M-SW	F	H	
H55333	b	17 Jul	29 Sep	82	M-SW	F	H	
H55441	a	3 Jul	16 Jul	78	M-SW	F	H	
H57911	b	12 Sep	29 Sep	87	M-SW	F	H	
H58780	b	2 Jul	2 Oct	79	M-SW	F	H	
H64912	d	25 Sep	5 Oct	77	M-SW	F	H	
H67859	a	6 Sep	1 Oct	80	M-SW	M	H	
H68156	a	2 Jul	10 Jul	75	M-SW	F	H	
H68182	b	13 Jul	26 Sep	76	M-SW	F	H	
H68211	a	1 Jul	15 Jul	76	M-SW	F	H	
H68954	a	6 Sep	24 Sep	79	M-SW	F	H	
H71325	a	7 Sep	9 Oct	77	M-SW	F	H	
M25247	b	10 Jul	4 Oct	57	1-SW	M	H	
M25621	c	1 Aug	27 Aug	53	1-SW	M	H	Also through Beechwood on 24 Sep.
M25749	c	1 Aug	24 Sep	52	1-SW	M	H	
M25762	c	1 Aug	27 Sep	58	1-SW	M	H	Also through Beechwood on 11 Oct.
M25846	a	14 Aug	4 Oct	62	1-SW	M	H	
M27134	b	29 Aug	29 Sep	55	1-SW	M	H	
M27140	b	12 Sep	21 Sep	57	1-SW	M	H	
M28614	c	1 Aug	29 Aug	56	1-SW	M	H	
M28693	a	9 Jul	13 Jul	55	1-SW	M	H	
M28865	-	-	10 Oct	59	1-SW	M	H	
M29365	c	1 Aug	28 Aug	55	1-SW	M	H	
M29583	c	1 Aug	21 Sep	59	1-SW	M	H	Also through Beechwood on 29 Sep.
M29675	b	8 Aug	23 Sep	54	1-SW	M	H	
M29889	c	1 Aug	28 Sep	59	1-SW	M	H	
M30424	c	1 Aug	27 Aug	56	1-SW	M	H	Also through Beechwood on 5 Sep.
M30684	c	1 Aug	29 Sep	59	1-SW	M	H	
M30792	c	1 Aug	28 Sep	55	1-SW	M	H	Also through Beechwood on 7 Oct.
M31255	c	1 Aug	28 Sep	55	1-SW	M	H	
M32351	a	17 Aug	22 Aug	57	1-SW	M	H	
M32557	a	9 Jul	15 Jul	56	1-SW	M	H	
M33338	a	18 Sep	10 Oct	58	1-SW	M	H	
M33890	b	3 Aug	3 Oct	55	1-SW	M	H	Also through Beechwood on 7 Oct.
M34803	a	25 Sep	7 Oct	57	1-SW	M	H	
M34831	-	-	2 Oct	55	1-SW	F	H	
M35303	b	23 Aug	7 Oct	56	1-SW	M	H	
M35799	c	1 Aug	28 Sep	58	1-SW	M	H	
M35950	c	1 Aug	2 Oct	60	1-SW	M	H	
M36330	b	2 Jul	3 Oct	59	1-SW	M	H	
M36511	a	9 Jul	24 Sep	55	1-SW	M	H	
M37138	a	9 Jul	14 Jul	58	1-SW	M	H	
M37253	c	1 Aug	28 Sep	61	1-SW	M	H	
M37403	b	10 Jul	2 Oct	53	1-SW	M	H	
M37611	a	6 Jul	11 Jul	57	1-SW	M	H	Angled Jul 24 at Hartland.
M38007	c	1 Aug	29 Aug	55	1-SW	M	H	
M38497	c	1 Aug	28 Aug	58	1-SW	M	H	
M38915	c	1 Aug	7 Oct	55	1-SW	M	H	
M39257	b	10 Jul	5 Oct	56	1-SW	M	H	
M39308	c	1 Aug	27 Sep	57	1-SW	M	H	Also through Beechwood on 30 Sep.
M40300	-	-	15 Jul	-	1-SW	M	H	Angled in Jul below Beechwood Dam.
M41081	a	9 Jul	19 Jul	58	1-SW	M	H	Angled in Jul below Beechwood Dam.
M41941	c	1 Aug	17 Aug	58	1-SW	M	H	Also through Beechwood on 24 & 26 Sep and 5 Oct.
M42960	b	8 Jul	21 Sep	56	1-SW	M	H	
M43043	a	18 Sep	27 Sep	58	1-SW	M	H	Also through Beechwood on 10 Oct.
M43231	c	1 Aug	18 Sep	54	1-SW	M	H	
M43390	c	1 Aug	10 Sep	58	1-SW	M	H	
M43499	c	1 Aug	24 Sep	57	1-SW	M	H	
M43862	a	3 Aug	4 Oct	56	1-SW	M	H	

TABLE B-3. (Continued)

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
M44971	c	1 Aug	25 Sep	58	1-SW	M	H	Also through Beechwood on 3 Oct.
M45072	b	8 Aug	4 Oct	55	1-SW	M	H	
M45707	a	17 Aug	24 Sep	58	1-SW	M	H	
M45856	b	8 Jul	21 Sep	57	1-SW	M	H	
M46027	a	3 Jul	15 Jul	60	1-SW	M	H	
M46749	c	1 Aug	3 Sep	59	1-SW	M	H	Also through Beechwood on 26 Sep.
M47344	b	23 Aug	27 Sep	61	1-SW	M	H	
M47777	a	18 Sep	7 Oct	60	1-SW	M	H	
M48577	c	1 Aug	8 Oct	56	1-SW	M	H	
M48780	c	1 Aug	4 Sep	60	1-SW	M	H	
M49833	c	1 Aug	2 Oct	56	1-SW	M	H	
M79248	a	27 Jul	30 Jul	83	M-SW	F	W	
P70066	c	1 Aug	23 Sep	54	1-SW	M	H	
P70236	a	18 Sep	26 Sep	63	1-SW	M	H	
P70346	a	18 Sep	26 Sep	57	1-SW	M	H	
P70835	a	3 Jul	11 Jul	60	1-SW	M	H	
P71535	c	1 Aug	25 Sep	59	1-SW	M	H	Also through Beechwood on 25 & 29 Sep & 4 Oct.
P72487	a	6 Sep	24 Sep	61	1-SW	M	H	
P72611	b	8 Aug	5 Oct	55	1-SW	M	H	
P72651	c	1 Aug	1 Oct	54	1-SW	M	H	
P73721	b	10 Jul	23 Sep	59	1-SW	M	H	
P73825	c	1 Aug	27 Sep	55	1-SW	M	H	
P73850	c	1 Aug	7 Sep	57	1-SW	M	H	
P73955	a	18 Sep	26 Sep	62	1-SW	M	H	
P82617	a	9 Jul	16 Jul	52	1-SW	M	H	
V98411	c	19 Oct	24 Oct	57	1-SW	M	W	
V98414	c	19 Oct	29 Oct	55	1-SW	M	W	
V98415	c	19 Oct	22 Oct	59	1-SW	M	W	
V98426	a	19 Oct	1 Nov	59	1-SW	M	W	
V98807	a	19 Oct	22 Oct	58	1-SW	M	H	
V98814	a	19 Oct	22 Oct	59	1-SW	M	H	Also through Beechwood on 29 Oct.
V98832	a	19 Oct	22 Oct	57	1-SW	M	W	
M98847	a	19 Oct	22 Oct	55	1-SW	M	W	
V98867	a	19 Oct	22 Oct	49	1-SW	M	W	
V98874	a	19 Oct	29 Oct	53	1-SW	M	W	
V98883	a	19 Oct	23 Oct	60	1-SW	M	W	
V98884	a	19 Oct	29 Oct	40	1-SW	M	W	
V98885	a	19 Oct	29 Oct	59	1-SW	F	W	Also through Beechwood on 31 Oct.

TABLE B-4. Tagged 1-SW and M-SW salmon through Beechwood fish facilities in 1980.

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
M25654	a	25 Jun	1 Aug	73	M-SW	F	H	
M26567	a	5 Jul	8 Aug	76	M-SW	F	H	
M28237	a	3 Jul	28 Jul	77	M-SW	F	H	
M29384	a	5 Jul	14 Jul	77	M-SW	F	H	
M30554	a	21 Jul	1 Aug	76	M-SW	F	H	
M30767	a	7 Jul	22 Jul	77	M-SW	F	H	
M38710	a	7 Jul	1 Aug	77	M-SW	F	H	
M38887	a	28 Jun	7 Jul	83	M-SW	F	H	
M39229	a	7 Jul	27 Oct	76	M-SW	F	H	
M40164	b	27 Jun	8 Aug	75	M-SW	F	H	
M40693	a	7 Jul	12 Jul	78	M-SW	F	H	
M42948	-	-	5 Aug	72	M-SW	-	H	
M44363	a	26 Jul	2 Aug	72	M-SW	F	H	
M49179	a	20 Jul	1 Aug	75	M-SW	F	H	
M49871	a	7 Jul	26 Aug	72	M-SW	F	H	
P71124	a	20 Jul	6 Aug	82	M-SW	F	H	
P71228	a	7 Jul	22 Jul	80	M-SW	F	H	
P73444	a	7 Jul	16 Jul	78	M-SW	F	H	
P80669	d	19 Sep	25 Sep	84	M-SW	M	H	
P82086	b	13 Jul	29 Jul	76	M-SW	F	H	
P83165	b	12 Jul	1 Aug	71	M-SW	F	H	
P83248	a	25 Jun	30 Jun	78	M-SW	F	H	
P83561	a	7 Jul	13 Jul	80	M-SW	F	H	
P83883	a	1 Jul	6 Jul	81	M-SW	F	H	
P84000	-	-	7 Jul	77	M-SW	-	H	
P84120	a	13 Aug	17 Aug	79	M-SW	F	H	
P84345	a	8 Aug	19 Aug	72	M-SW	F	H	Also through Beechwood on 26 Aug.
P84501	a	6 Jul	22 Jul	78	M-SW	F	H	Also through Beechwood on 8 Aug.
T19615	a	16 Jun	23 Jun	95	M-SW	F	W	
T19657	a	16 Jun	20 Jun	96	M-SW	M	W	
T19762	a	25 Jun	30 Jun	78	M-SW	M	W	
T19827	a	3 Jul	8 Jul	88	M-SW	F	W	
T19951	a	16 Jun	21 Jun	70	M-SW	M	W	Also through Beechwood on 23 June.
V98446	a	26 Jul	30 Jul	63	M-SW	F	W	
V98453	-	-	23 Jun	59	1-SW	-	H	Recorded as black salmon released at Woodstock on 19 Oct 79.
1220[1]	a	18 Aug	25 Aug	84	M-SW	F	W	
1223[1]	a	13 Sep	25 Sep	86	M-SW	F	W	
M79846	a	10 Oct	17 Oct	58	1-SW	F	H	
M80265	a	26 Jul	17 Aug	63	1-SW	M	H	
M80294	b	15 Aug	29 Sep	55	1-SW	M	H	
M80965	a	22 Aug	29 Aug	58	1-SW	M	H	
M81029	a	20 Jul	7 Aug	57	1-SW	M	H	
M81053	a	22 Aug	7 Sep	55	1-SW	M	H	
M81196	a	8 Aug	30 Aug	57	1-SW	M	H	Angled 9 Sep at Florenceville.
M81596	a	18 Aug	10 Oct	57	1-SW	F	H	
M81996	a	4 Aug	10 Aug	63	1-SW	M	H	
M82123	a	8 Aug	21 Aug	56	1-SW	M	H	
M82392	a	13 Sep	25 Sep	65	1-SW	M	H	
M82423	a	23 Jul	24 Aug	59	1-SW	M	H	
M82549	a	18 Aug	4 Sep	57	1-SW	M	H	Angled 4 Sep below Beechwood Dam.
M82553	b	28 Jul	25 Sep	60	1-SW	M	H	
M82688	a	13 Aug	29 Sep	59	1-SW	M	H	
M82779	a	28 Jul	2 Aug	56	1-SW	M	H	Also through Beechwood on 25 Aug.
M83079	a	29 Aug	25 Sep	58	1-SW	M	H	
M83135	a	8 Aug	11 Aug	60	1-SW	M	H	
M83168	a	6 Jul	19 Jul	56	1-SW	M	H	
M83532	a	5 Aug	22 Aug	61	1-SW	M	H	
M84286	-	-	25 Sep	58	1-SW	M	H	
M84323	b	5 Jul	14 Aug	56	1-SW	M	H	Also through Beechwood on 26 Aug.
M84598	a	22 Aug	23 Sep	61	1-SW	M	H	
M85199	a	29 Jul	25 Aug	63	1-SW	M	H	
M85652	a	5 Aug	29 Sep	58	1-SW	M	H	
M86184	a	26 Jul	28 Jul	60	1-SW	M	H	

TABLE B-4. (Continued)

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
M86300	a	20 Jul	14 Aug	60	1-SW	M	H	
M86462	a	4 Aug	10 Aug	62	1-SW	M	H	
M86794	a	23 Jul	29 Jul	54	1-SW	M	H	
M87639	a	26 Jul	11 Aug	61	1-SW	M	H	
M88218	a	4 Aug	29 Aug	58	1-SW	M	H	
M88561	a	5 Aug	26 Aug	58	1-SW	M	H	
M88591	a	26 Jul	1 Aug	60	1-SW	M	H	
M88962	a	28 Jul	17 Aug	61	1-SW	M	H	
M89236	a	12 Jul	21 Jul	59	1-SW	M	H	Also through Beechwood on 30 Jul.
M89475	a	21 Jul	24 Jul	56	1-SW	M	H	Also through Beechwood on 30 Jul.
M89649	a	29 Jul	23 Sep	61	1-SW	M	H	
M89786	a	1 Jul	6 Aug	54	1-SW	M	H	
M89951	a	13 Aug	17 Aug	57	1-SW	M	H	Also through Beechwood on 15 Sep.
M90066	a	13 Aug	23 Sep	60	1-SW	M	H	
M90572	a	8 Aug	17 Aug	60	1-SW	M	H	
M90865	a	8 Aug	22 Oct	-	1-SW	M	H	
M90911	a	8 Aug	23 Oct	61	1-SW	M	H	
M91216	a	23 Jul	30 Jul	59	1-SW	M	H	
M91526	b	9 Jul	29 Jul	59	1-SW	M	H	
M91593	a	8 Aug	25 Aug	63	1-SW	M	H	
M91734	b	8 Jul	17 Aug	55	1-SW	M	H	
M91897	a	13 Aug	20 Aug	54	1-SW	F	H	
M92072	a	22 Aug	29 Aug	57	1-SW	M	H	
M92444	a	13 Jul	17 Sep	57	1-SW	M	H	
M92495	a	25 Jul	28 Jul	61	1-SW	M	H	
M92822	a	1 Jul	14 Jul	57	1-SW	M	H	
M92858	a	5 Aug	13 Aug	63	1-SW	M	H	
M92868	b	21 Aug	27 Aug	58	1-SW	M	H	
M92894	a	4 Aug	6 Aug	58	1-SW	M	H	
M92902	a	30 Jun	5 Aug	58	1-SW	M	H	
M92909	a	29 Jul	19 Aug	60	1-SW	M	H	
M92961	a	25 Jul	25 Aug	60	1-SW	M	H	
M92964	b	7 Oct	23 Oct	62	1-SW	M	H	
M93232	a	13 Aug	24 Aug	59	1-SW	M	H	
M93921	a	4 Aug	10 Aug	59	1-SW	M	H	
M94102	a	31 Jul	6 Aug	58	1-SW	M	H	
M94490	a	4 Aug	22 Aug	55	1-SW	M	H	
M94546	b	5 Sep	7 Oct	64	1-SW	M	H	
M94552	b	5 Aug	25 Aug	60	1-SW	M	H	
M94568	b	31 Jul	29 Sep	55	1-SW	M	H	
M94624	a	4 Aug	13 Aug	57	1-SW	M	H	
M94758	b	7 Jul	10 Aug	55	1-SW	M	H	
M94962	a	11 Aug	24 Aug	57	1-SW	M	H	
M95053	b	21 Aug	25 Sep	62	1-SW	M	H	
M95477	-	-	15 Sep	59	1-SW	M	H	
M95517	a	12 Jul	14 Aug	61	1-SW	M	H	
M95554	a	29 Jul	6 Oct	62	1-SW	M	H	
M95601	a	30 Jun	14 Jul	59	1-SW	M	H	
M95670	-	-	28 Jul	64	1-SW	-	H	Also through Beechwood on 24 Aug.
M95758	a	26 Jul	28 Jul	64	1-SW	M	H	
M95899	a	29 Jul	17 Aug	60	1-SW	M	H	
M95974	a	8 Aug	21 Aug	57	1-SW	M	H	
M96239	a	8 Aug	13 Aug	61	1-SW	M	H	Returned to Mactaquac on 10 Oct.
M96400	a	12 Jul	17 Aug	51	1-SW	M	H	Angled 9 Sep at Bristol.
M96746	a	25 Jul	28 Jul	60	1-SW	M	H	
M96772	a	13 Jul	29 Jul	57	1-SW	M	H	
M97346	-	-	14 Aug	58	1-SW	-	H	
M98594	a	26 Jul	31 Jul	59	1-SW	M	H	
M98842	b	19 Jul	1 Aug	57	1-SW	M	H	
M98846	a	26 Jul	29 Jul	55	1-SW	M	H	
M99034	a	8 Aug	12 Aug	58	1-SW	M	H	
M99318	a	13 Aug	17 Aug	60	1-SW	M	H	
M99465	a	23 Jul	30 Jul	57	1-SW	M	H	

TABLE B-4. (Continued)

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
M99590	a	23 Jul	1 Aug	52	1-SW	M	H	Also through Beechwood on 2 Aug.
M99614	a	26 Jul	1 Aug	57	1-SW	M	H	
M99728	a	13 Jul	30 Jul	56	1-SW	M	H	Angled 15 Aug at mouth of Presquile River.
W00013	a	13 Aug	17 Aug	58	1-SW	M	H	
W00084	a	25 Jul	30 Jul	59	1-SW	M	H	Also through Beechwood on 1 Aug.
W00197	a	26 Jul	28 Jul	64	1-SW	M	H	Also through Beechwood on 23 Sep.
W00340	a	23 Sep	10 Oct	66	1-SW	M	H	
W00503	a	28 Jul	2 Aug	61	1-SW	M	H	
W00623	a	13 Aug	29 Sep	56	1-SW	M	H	
W01048	d	24 Sep	6 Oct	61	1-SW	M	H	
W01178	a	8 Aug	14 Aug	56	1-SW	M	H	
W01496	b	5 Sep	29 Sep	56	1-SW	M	H	
W01586	a	31 Jul	23 Oct	59	1-SW	M	H	
W01855	a	5 Aug	18 Sep	60	1-SW	M	H	
W02188	a	23 Jul	29 Jul	58	1-SW	M	H	
W02469	a	3 Jul	7 Jul	56	1-SW	M	H	
W02825	a	28 Jul	30 Jul	56	1-SW	M	H	
W02981	-	-	30 Jul	60	1-SW	-	H	
W03971	a	29 Sep	6 Oct	65	1-SW	M	H	
W04053	a	31 Jul	5 Aug	57	1-SW	M	H	
W04106	a	4 Aug	17 Aug	56	1-SW	M	H	
W04602	a	18 Aug	25 Aug	59	1-SW	M	H	
W04944	a	24 Jul	29 Jul	57	1-SW	M	H	
W05462	a	13 Aug	22 Aug	61	1-SW	M	H	
W05873	a	13 Aug	18 Sep	56	1-SW	M	H	
W05919	a	13 Aug	17 Aug	59	1-SW	M	H	
W06015	a	13 Jul	7 Aug	59	1-SW	M	H	
W06082	a	29 Sep	13 Oct	61	1-SW	M	H	
W06337	a	13 Aug	19 Aug	65	1-SW	M	H	
W07062	a	8 Aug	20 Aug	56	1-SW	M	H	
W07730	b	29 Jul	29 Aug	61	1-SW	M	H	
W08980	a	8 Aug	14 Aug	56	1-SW	M	H	
W09399	a	22 Aug	4 Sep	59	1-SW	M	H	
W09659	a	5 Aug	24 Aug	57	1-SW	M	H	
W10532	a	11 Aug	18 Aug	60	1-SW	M	H	
W11848	a	13 Aug	26 Aug	59	1-SW	F	H	Also through Beechwood on 13 & 21 Oct.
W11933	a	22 Aug	23 Sep	58	1-SW	M	H	

1. Large green modified Carlin tag.

TABLE B-5. Tagged 1-SW and M-SW salmon through Beechwood fish facilities in 1981.

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
M80223	a	11 Jul	29 Jul	78	M-SW	F	H	
M87496	a	3 Jul	31 Aug	-	M-SW	F	H	
M89268	a	25 Jul	6 Jul	-	M-SW	F	H	
M90146	a	6 Jul	16 Jul	-	M-SW	F	H	
M91440	a	6 Jul	23 Jul	-	M-SW	F	H	Also through Beechwood on 29 Jul.
M91464	a	10 Jun	29 Jun	-	M-SW	M	H	Also through Beechwood on 3 Jul.
M92743	a	2 Jul	13 Jul	-	M-SW	F	H	
M92759	a	10 Jul	17 Jul	-	M-SW	F	H	
M94784	-	-	25 Jul	82	M-SW		H	
M97800	a	2 Jul	31 Jul	76	M-SW	F	H	
V98455	a	30 Jul	5 Aug	68	M-SW	M	W	
W04385	b	3 Jul	7 Oct	73	M-SW	M	H	
W14203	a	2 Jul	6 Jul	78	M-SW	F	H	
W72516	a	2 Jul	18 Jul	60	1-SW	M	H	Also through Beechwood on 28 Jul.
W72642	a	15 Jul	20 Jul	60	1-SW	M	H	
W74241	a	27 Jul	2 Aug	58	1-SW	M	H	
W74461	b	5 Aug	2 Sep	57	1-SW	M	H	Also through Beechwood on 2 Sep.
W76947	b	7 Jul	5 Oct	59	1-SW	M	H	
W77144	a	15 Jul	2 Aug	58	1-SW	M	H	Returned to Mactaquac on 13 Oct.
W77489	a	15 Jul	4 Aug	56	1-SW	M	H	
W80473	a	18 Jul	22 Jul	58	1-SW	M	H	
W81640	b	5 Aug	17 Sep	58	1-SW	M	H	
W90142	a	27 Jul	6 Sep	56	1-SW	M	H	
W90184	a	10 Jul	27 Jul	59	1-SW	M	H	
W93515	-	-	13 Oct	56	1-SW	M	H	
W95133	a	2 Jul	28 Aug	57	1-SW	M	H	
W95711	a	10 Jul	13 Jul	58	1-SW	M	H	
W95990	a	23 Jul	30 Jul	53	1-SW	M	H	
W97531	a	15 Jul	28 Aug	50	1-SW	M	H	
W98117	a	27 Jul	4 Aug	56	1-SW	M	H	Also through Beechwood on 28 Sep & 5 Oct.
X36631	b	20 Jul	6 Oct	57	1-SW	M	H	
X37058	b	20 Jul	19 Oct	61	1-SW	M	H	
X37459	b	2 Oct	15 Oct	61	1-SW	M	H	
X37743	a	18 Jul	2 Aug	56	1-SW	M	H	
Q36611	a	10 Aug	16 Sep	55	1-SW	M	H	
Q36617	a	10 Aug	4 Sep	57	1-SW	M	H	

TABLE B-6. Tagged 1-SW and M-SW salmon through Beechwood fish facilities in 1982.

Tag No.	Releases Location	Releases Date	Date at Beechwood	Length (cm)	Age	Sex	Origin	Remarks
W79166	b	2 Jul	30 Sep	77	M-SW	F	H	
X40440	-	-	29 Sep	57	1-SW	M	H	
X43290	a	12 Jul	2 Aug	51	1-SW	M	H	
X43970	a	12 Jul	16 Jul	54	1-SW	M	H	
X45128	a	12 Jul	30 Sep	62	1-SW	M	H	
X47842	a	21 Sep	27 Sep	56	1-SW	M	H	
X49401	a	30 Jul	4 Aug	54	1-SW	M	H	
X49834	a	30 Jul	2 Aug	53	1-SW	M	H	
X50240	a	8 Sep	20 Sep	57	1-SW	M	H	
X50784	a	16 Aug	23 Aug	51	1-SW	M	H	
X52081	a	30 Jul	23 Aug	58	1-SW	M	H	
X54183	a	30 Jul	10 Sep	55	1-SW	M	H	Also through Beechwood on 5 Oct.
X56799	b	22 Sep	7 Oct	58	1-SW	M	H	

APPENDIX C

SEMI-MONTHLY COUNTS OF FISH SPECIES OTHER THAN ATLANTIC SALMON THROUGH BEECHWOOD FISH FACILITIES, 1977-82

This appendix lists the semi-monthly totals of fish species other than Atlantic salmon which were passed over the Beechwood Dam. Most numbers are "counts" but when large numbers of eels, yellow perch or suckers were in the skip-hoist, the "counts" reverted to "estimates". These data suggest the general timing and relative intensities of their movements.

APPENDIX C

SEMI-MONTHLY COUNTS OF FISH SPECIES OTHER THAN ATLANTIC SALMON THROUGH THE BEECHWOOD FISH FACILITIES, 1977-82.

Species	June		July		August		September		October		Nov	Total
	1-15	16-30	1-15	16-31	1-15	16-31	1-15	16-30	1-15	16-31	1-5	
1977												
Alewives (gaspereau)	0	6	331	29	0	0	0	3	0	0	0	369
Catfish (brown bullhead)	0	22	103	74	48	32	40	3	0	0	0	322
Eel, American	0	27	269	1,194	1,152	1,111	226	395	58	4	0	4,436
Lamprey	0	0	0	0	0	0	0	0	0	0	0	0
Minnows (shiners, etc)	0	4	4	18	10	3	10	17	3	0	0	69
Perch, white	0	10	12	1	12	4	19	5	0	0	0	63
Perch, yellow	0	756	529	75	60	55	74	17	0	1	0	1,567
Pickerel, chain	3	4	1	3	0	0	0	0	0	0	0	11
Sebago (landlocked salmon)	0	2	14	0	0	0	0	1	0	0	0	17
Shad	0	0	0	0	0	0	0	0	0	0	0	0
Suckers	0	858	251	10	2	3	5	15	5	1	1	1,151
Sunfish (pumpkinseed)	0	0	17	5	9	1	1	0	0	0	0	33
Trout, brook (speckled)	0	87	271	4	6	2	3	13	1	0	0	387
Trout, rainbow	0	0	0	0	0	0	0	0	0	0	0	0
Whitefish	0	0	0	0	0	1	0	1	0	0	0	2
1978												
Alewives (gaspereau)	511	49	690	0	0	0	0	0	0	0	0	1,250
Catfish (brown bullhead)	6	64	11	30	20	4	4	0	0	0	0	139
Eel, American	49	234	546	1,366	379	136	150	43	26	0	0	2,929
Lamprey	0	0	0	0	0	0	0	0	0	0	0	0
Minnows (shiners, etc.)	0	58	10	17	33	45	0	7	10	2	0	182
Perch, white	17	41	102	4	1	21	2	0	1	0	0	189
Perch, yellow	875	714	91	141	58	34	47	16	0	0	0	1,976
Pickerel, chain	1	2	0	0	0	0	2	0	0	0	0	5
Sebago (landlocked salmon)	2	10	0	3	0	0	2	0	0	0	0	17
Shad	0	0	0	0	0	0	0	0	0	0	0	0
Suckers	595	179	9	5	0	1	2	10	10	21	0	832
Sunfish (pumpkinseed)	8	21	17	2	4	2	0	0	0	0	0	54
Trout, brook (speckled)	74	222	53	30	6	0	7	19	18	12	0	441
Trout, rainbow	0	0	0	0	0	0	0	0	0	0	0	0
Whitefish	0	2	0	0	1	0	0	0	2	0	0	5
1979												
Alewives (gaspereau)	19	193	293	1	0	0	0	1	0	0	0	507
Catfish (brown bullhead)	1	108	47	66	22	18	6	1	0	0	0	269
Eel, American	1	143	91	1,120	975	306	103	23	3	0	0	2,765
Lamprey	0	0	0	0	0	0	0	0	0	0	0	0
Minnows (shiners, etc)	0	0	0	0	0	0	0	0	0	0	0	0
Perch, white	4	23	18	1	0	0	0	3	4	0	0	53
Perch, yellow	473	2,271	237	8	13	51	49	0	2	7	0	3,111
Pickerel, chain	2	1	0	1	0	0	0	0	0	0	0	4
Sebago (landlocked salmon)	1	18	11	0	0	1	2	2	2	1	0	38
Shad	0	0	0	0	0	0	0	0	0	0	0	0
Suckers	106	261	22	2	0	0	4	31	140	27	2	595
Sunfish (pumpkinseed)	5	14	0	1	0	0	2	0	0	0	0	22
Trout, brook (speckled)	86	161	27	9	0	5	0	1	10	0	0	299
Trout, rainbow	0	0	0	0	0	0	0	0	0	0	0	0
Whitefish	0	2	1	0	0	0	0	0	0	1	0	4

APPENDIX C

(Continued)

Species	June		July		August		September		October		Nov	Total
	1-15	16-30	1-15	16-31	1-15	16-31	1-15	16-30	1-15	16-31	1-5	
1980												
Alewives (gaspereau)	145	408	6	3	0	0	0	0	0	0	0	562
Catfish (brown bullhead)	3	32	8	11	20	9	5	0	0	0	0	88
Eel, American	6	52	419	518	950	435	167	36	3	1	0	2,587
Lamprey	0	0	1	0	0	0	0	0	0	0	0	1
Minnows (shiners, etc.)	0	3	0	0	0	0	3	0	0	0	0	6
Perch, white	3	11	3	0	0	1	2	1	0	0	0	21
Perch, yellow	2,100	1,216	121	30	3	13	160	12	0	0	0	3,655
Pickerel, chain	8	6	3	1	0	0	0	0	0	0	0	18
Sebago (landlocked salmon)	7	18	5	3	3	1	0	3	6	2	1	49
Shad	0	0	0	0	0	0	0	0	0	0	0	0
Suckers	554	232	7	4	0	0	3	10	6	0	0	816
Sunfish (pumpkinseed)	1	2	0	0	0	1	1	0	0	0	0	5
Trout, brook (speckled)	76	241	87	15	3	1	2	1	0	0	0	426
Trout, rainbow	0	0	0	0	0	0	0	0	0	0	0	0
Whitefish	0	1	0	0	1	0	1	0	0	0	0	3
1981												
Alewives (gaspereau)	4	123	66	0	0	0	0	0	0	0	0	193
Catfish (brown bullhead)	17	17	53	30	10	0	1	0	0	0	0	128
Eel, American	5	96	2,401	2,438	550	7	9	2	0	0	0	5,508
Lamprey	0	0	0	0	0	0	0	0	0	0	0	0
Minnows (shiners, etc)	0	0	0	0	0	0	0	0	0	0	0	0
Perch, white	9	11	3	8	7	0	1	0	0	0	0	39
Perch, yellow	2,210	403	265	59	12	0	130	15	0	0	0	3,094
Pickerel, chain	4	3	0	1	1	0	1	1	0	0	0	11
Sebago (landlocked salmon)	10	24	29	8	2	2	5	2	11	7	0	100
Shad	0	0	0	0	0	0	0	0	0	0	0	0
Suckers	607	22	2	0	0	0	0	0	0	0	0	631
Sunfish (pumpkinseed)	1	0	3	1	0	0	2	0	0	0	0	7
Trout, brook (speckled)	43	94	42	0	0	6	3	1	0	0	0	189
Trout, rainbow	0	0	0	0	1	1	0	0	0	0	0	2
Whitefish	0	0	0	0	0	0	0	0	0	1	0	1
1982												
Alewives (gaspereau)	19	46	63	10	0	0	0	0	0	0	0	138
Catfish (brown bullhead)	6	25	4	5	2	1	1	0	0	0	0	44
Eel, American	2	16	135	130	357	146	24	20	1	0	0	831
Lamprey	0	0	0	0	0	0	0	0	0	0	0	0
Minnows (shiners, etc.)	0	0	0	0	0	0	0	0	0	0	0	0
Perch, white	4	9	2	0	1	0	0	0	0	0	0	16
Perch, yellow	1,050	970	170	16	47	277	31	50	8	2	0	2,621
Pickerel, chain	0	3	1	3	0	0	0	0	0	1	0	8
Sebago (landlocked salmon)	1	11	18	17	1	1	1	1	5	5	4	64
Shad	0	1	0	0	0	0	0	0	0	0	0	1
Suckers	16	8	0	0	0	1	0	23	3	0	0	51
Sunfish (pumpkinseed)	0	3	0	1	0	0	0	0	0	0	0	4
Trout, brook (speckled)	15	70	55	16	1	1	2	4	1	1	0	166
Trout, rainbow	0	0	0	0	0	0	0	0	0	0	0	0
Whitefish	0	0	0	0	0	0	0	0	3	0	0	3

APPENDIX D

DISSOLVED OXYGEN AND WATER TEMPERATURE AT BEECHWOOD, 1977-82

Sampling of the river water for dissolved oxygen in the Beechwood area was carried out at irregular intervals during the years 1977-82. Samples were normally obtained about 1 m below the water surface. A Hach Kit was used to determine DO levels to the nearest one-half part per million (ppm). Water temperatures were recorded to the nearest one-half degree Celcius (°C).

The sampling areas are defined as follows:

Headpond - Immediately above Beechwood Dam, at the point where the fish are released from the skip-hoist.

Tailrace - About 90 m below Beechwood Dam, in the turbine discharge near the east bank.

APPENDIX D

DISSOLVED OXYGEN AND WATER TEMPERATURE AT BEECHWOOD, 1977-82.

Date	Headpond DO (ppm)	Headpond Temp (°C)	Tailrace DO (ppm)	Tailrace Temp (°C)
1977				
June				
20	10.0	13.5	11.0	13.5
24	11.0	14.0	11.0	14.0
29	11.0	14.0	11.0	14.0
July				
4	9.0	15.5	10.0	15.5
5	9.0	16.5	9.0	16.5
11	9.0	16.5	9.0	16.5
12	8.0	17.5	8.0	17.0
13	8.0	17.5	8.0	17.0
15	9.0	18.5	9.0	18.0
17	9.0	18.5	9.0	18.0
18	8.0	20.0	8.0	20.0
20	8.0	20.0	8.0	20.0
21	7.0	21.5	7.0	21.5
23	7.0	21.5	7.0	21.5
27	5.0	20.0	5.0	20.0
28	5.0	19.5	5.0	19.5
29	5.0	19.5	5.5	19.5
30	5.0	20.0	-	-
Aug				
2	5.0	19.5	5.5	19.0
4	6.0	20.5	6.0	20.5
5	6.0	20.5	6.0	20.5
11	6.0	20.5	6.0	20.0
16	6.0	20.0	6.0	19.5
18	6.0	19.5	6.0	19.0
22	5.0	19.0	5.5	18.5
24	5.5	19.0	6.0	18.5
26	5.5	19.0	6.0	8.5
29	5.0	19.0	5.0	18.5
31	6.0	18.5	6.5	18.5
Sept				
1	6.0	18.5	6.5	18.5
6	6.0	18.0	6.5	18.0
8	6.0	16.5	6.0	16.5
14	6.0	16.0	6.5	16.0
15	6.5	16.0	7.0	16.0
20	7.0	14.0	7.0	14.0
22	7.0	14.0	7.0	14.0
23	7.0	13.0	7.0	13.0
27	8.0	12.5	8.0	12.5
29	8.0	12.5	8.0	12.5
Oct				
4	11.0	11.0	11.0	11.0
7	11.0	9.0	11.0	9.0
13	12.0	8.0	12.0	8.0
18	12.0	7.0	12.0	7.0
24	12.0	6.0	12.0	6.0
31	13.0	5.0	13.0	5.0

APPENDIX D

(Continued)

Date	Headpond DO (ppm)	Headpond Temp (°C)	Tailrace DO (ppm)	Tailrace Temp (°C)
1978				
June				
19	10.0	15.0	10.0	15.0
22	9.0	18.0	9.0	18.0
27	9.0	19.0	9.0	19.0
29	9.0	19.0	9.0	19.0
July				
4	8.0	18.0	8.0	18.0
6	8.0	19.0	8.0	19.0
11	8.0	19.0	8.0	19.0
18	7.0	21.0	7.5	21.0
20	6.5	21.0	7.0	21.0
25	5.0	21.0	5.5	21.0
27	6.0	21.0	6.0	21.0
Aug				
1	5.0	21.0	5.0	21.0
3	4.0	22.0	4.5	22.0
5	5.0	22.0	5.5	22.0
8	5.5	21.0	5.5	21.0
10	5.5	21.5	5.5	21.0
14	5.5	22.0	6.0	21.5
17	5.0	21.0	5.0	21.0
22	5.0	21.0	5.0	21.0
24	4.5	19.0	4.5	19.0
30	4.5	19.0	4.5	19.0
Sept				
5	5.0	18.0	5.0	18.0
7	5.0	17.0	5.5	17.0
12	5.5	15.0	6.0	15.0
14	5.5	15.0	6.0	15.0
19	6.0	13.0	6.0	13.0
21	6.0	13.0	6.0	13.0
26	6.0	13.0	6.0	13.0
28	6.0	12.0	6.0	12.0
Oct				
3	5.5	11.0	5.5	11.0
5	6.0	11.0	6.0	11.0
10	6.0	11.0	6.0	11.0
12	6.0	11.0	6.0	11.0
17	5.0	9.0	5.5	9.0
19	6.0	8.0	6.0	8.0
24	6.0	7.0	6.0	7.0
26	7.0	6.0	7.0	6.0
30	7.0	6.0	7.0	6.0

APPENDIX D

(Continued)

Date	Headpond DO (ppm)	Headpond Temp (°C)	Tailrace DO (ppm)	Tailrace Temp (°C)
1979				
June				
14	10.0	16.0	10.0	16.0
19	9.0	17.0	9.0	17.0
21	9.0	17.0	9.0	17.0
26	7.5	17.0	8.0	17.0
28	7.5	18.0	8.0	18.0
July				
3	7.5	18.0	8.0	18.0
5	7.5	18.0	7.5	18.0
9	8.5	18.0	8.5	18.0
10	8.0	18.0	8.0	18.0
12	8.0	18.0	8.0	18.0
15	7.5	19.0	7.5	19.0
16	7.0	19.0	7.5	19.0
17	6.5	20.0	6.5	19.5
19	6.5	20.0	6.5	20.0
21	6.5	21.0	6.5	21.0
24	6.0	22.0	6.0	22.0
26	6.0	23.0	6.0	22.0
31	6.0	24.0	6.0	23.5
Aug				
2	6.0	23.0	6.0	23.0
7	6.0	23.0	6.0	22.5
9	6.0	22.5	6.0	22.5
14	6.5	21.0	6.5	21.0
16	6.5	19.0	6.5	19.0
21	6.5	17.5	6.5	17.5
23	6.5	16.0	6.5	16.0
28	6.5	15.0	6.5	15.0
31	6.5	14.5	6.5	14.5
Sept				
3	6.5	14.0	6.5	14.0
6	6.5	14.0	6.5	14.0
18	6.0	13.5	-	-
20	6.0	13.0	-	-
25	6.0	12.0	-	-
27	6.0	12.0	-	-
Oct				
2	6.5	13.0	-	-
4	6.0	13.0	-	-
9	6.5	12.5	-	-
12	6.5	12.0	-	-
16	6.5	11.5	-	-
18	11.0	11.5	-	-
23	11.0	11.5	-	-
26	11.0	10.0	-	-
31	11.0	8.5	-	-
Nov				
1	11.0	7.5	-	-

APPENDIX D

(Continued)

Date	Headpond DO (ppm)	Headpond Temp (°C)	Tailrace DO (ppm)	Tailrace Temp (°C)
1980				
June				
10	7.5	16.5	8.0	16.5
20	8.0	16.5	8.0	16.5
24	8.0	16.0	8.0	16.0
26	8.0	15.5	8.0	15.5
30	8.0	15.5	8.0	15.5
July				
3	7.0	17.0	7.5	17.0
8	6.5	18.0	6.5	17.5
10	6.0	17.0	6.0	17.0
15	5.0	18.0	5.0	18.0
17	6.5	17.0	6.5	17.0
22	5.5	16.5	5.5	16.5
24	5.0	16.5	5.0	16.5
26	6.5	?	6.5	?
28	6.5	?	6.5	?
30	6.5	?	6.5	?
Aug				
4	7.0	19.0	7.5	19.0
7	7.0	20.0	7.5	20.0
12	6.5	20.0	7.0	20.0
14	6.5	20.0	6.5	20.0
19	7.0	19.0	7.5	19.0
21	7.5	19.0	7.5	19.0
26	6.5	20.0	6.5	20.0
28	6.5	20.0	6.5	20.0
Sept				
2	6.0	20.0	6.0	20.0
4	6.0	19.5	6.0	19.5
9	7.0	18.5	7.0	18.5
11	7.0	17.0	7.0	17.0
16	7.0	16.5	7.0	16.5
18	7.0	16.0	7.0	16.0
23	7.0	13.5	-	-
30	6.5	10.0	6.5	10.0
Oct				
2	7.0	8.0	7.0	8.0
7	7.0	7.0	7.0	7.0
9	6.5	6.0	7.0	6.0
14	6.5	6.0	6.5	6.0
21	7.0	6.0	7.0	6.0
28	7.0	5.0	7.0	5.0

APPENDIX D

(Continued)

Date	Headpond DO (ppm)	Headpond Temp (°C)	Tailrace DO (ppm)	Tailrace Temp (°C)
1981				
June				
11	6.0	14.5	6.0	14.5
16	7.0	16.0	7.5	14.5
18	7.5	16.5	7.5	16.5
23	7.5	16.5	7.5	16.5
25	7.5	16.5	7.5	16.5
30	7.5	17.0	7.5	17.0
July				
2	7.5	18.5	7.5	18.0
7	7.0	?	7.5	?
9	7.0	?	7.0	?
14	7.5	?	7.5	?
16	7.5	?	7.5	?
23	7.5	?	7.5	?
29	7.0	?	7.0	?
Aug				
2	7.5	?	7.5	?
4	7.5	?	7.5	?
18	7.5	?	7.5	?
20	7.5	18.0	7.5	18.0
25	7.5	18.0	7.5	18.0
27	7.5	18.0	7.5	18.0
Sept				
8	5.5	17.0	5.5	17.0
10	5.5	17.0	-	-
15	5.5	17.0	5.5	17.0
21	5.0	15.0	-	-
Oct				
6	6.5	10.0	-	-
8	6.5	10.0	-	-
13	7.0	9.0	-	-

APPENDIX D

(Continued)

Date	Headpond DO (ppm)	Headpond Temp (°C)	Tailrace DO (ppm)	Tailrace Temp (°C)
1982				
June				
29	8.0	16.0	8.0	16.0
July				
1	8.0	16.0	8.0	16.0
6	8.0	16.5	8.0	16.5
13	8.0	21.5	8.5	21.5
15	8.0	21.5	8.5	21.0
20	8.0	22.0	8.0	21.5
22	8.0	23.0	8.0	22.5
27	7.5	22.0	8.0	21.5
29	8.0	21.5	8.0	21.5
Aug				
3	8.0	21.0	8.0	21.0
5	8.0	21.0	8.0	21.0
10	8.0	21.0	8.0	21.0
12	8.0	20.5	8.0	20.5
16	8.0	20.5	8.5	20.5
18	8.5	20.0	8.5	20.0
19	8.5	20.0	8.5	20.0
24	8.5	18.5	8.5	18.0
26	8.0	17.5	8.0	17.5
31	8.0	17.0	8.5	17.0
Sept				
2	8.0	16.0	8.5	16.0
7	8.0	15.0	-	-
9	8.5	14.5	8.5	14.0
14	8.5	14.5	-	-
21	8.5	14.0	8.5	13.5
23	8.5	13.5	-	-
28	8.5	13.5	8.5	13.0
Oct				
5	8.5	12.0	8.5	12.0
7	8.5	12.0	8.5	12.0
12	8.5	10.5	-	-
14	8.5	10.0	8.5	10.0
19	8.5	9.0	8.5	9.0
21	8.5	9.0	-	-
26	8.0	8.0	-	-
28	8.0	8.0	-	-